TELEFUNKEN A135MT

MODEL

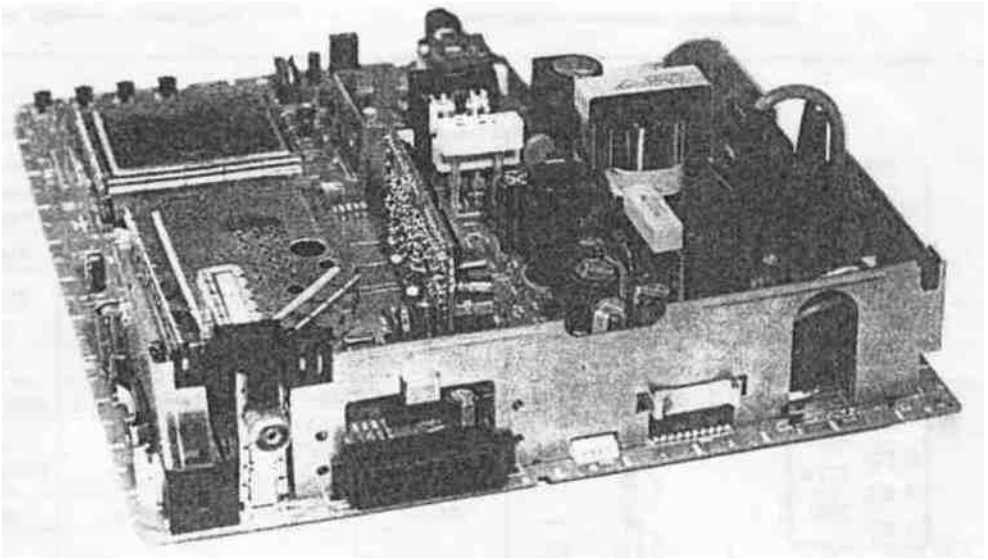
SERVICE MANUAL

THOMSON CONSUMER ELECTRONICS

NORDMENDE THOMSON TKCHNOLOOY | **SABA** | **TELEFUNKEN** | **THOMSON**

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONETECNICA
DOCUMENTACIONTECNICA

Chassis TX91



/f\ Indicates specially selected or critical safety components and identical components should be used for there replacement. This is necessary in order to maintain the operational safety of the receiver.

Le remplacement des elements de securite (reperes avec le symbole /1\ ) par des composants non homologues selon la Norme CEI 65 entraine la non-conformite de l'appareil. Dans ce cas, la responsabilite du fabricant n'est plus engagee.

Wenn Sicherheitsteile (mit dem Symbol /t\ gekennzeichnet) nicht durch Original-Ersatzteile ersetzt werden, eriischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marchi con il segno/i\) con componenenti non omologati secondo la norma CEI 65 comporta la non conformita dell'apparecchio. In tal caso e "esclusa la responsabilita " del costruttore.

La subtitucion de elementos de seguridad (marcados con el simboloZ!X) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MED1DAS

RECEIVER: UHF Input level. 1 mV test bar pattern. RM. I standard. 100% white

Scan input level. 1.0 Vpp test bar panern.

Programme PR01. Customer controls, Contrast, brightness and colour set at mid point and sound at minimum.

Atl"DC 'voltages are measurëd wïth"a 'digital meter between ground and the reference point.

RECEITEUR: E",,"F "mau c'entee I mV mire de banes • SECOil Noun L Bane IW.

Par a *yse PssSmm. mw* 0'Hitee I Vcc. aurede tons.

*ca^* srtasle. tonwe a *m-owx.* son *mimm.* Ptcwi-»a«eaePRI)I.

•ascrecsranuesretaieespatrappnIalaiTasstMciin icawte runenme

EMPFANGER: Be UHF Eincanospegel 1 mV. Faitoaken: .PAL. Norm 6 WMS 100%.

unei *y* Sca."uc"s«: E.nca'ssoegd 1 Vss Faaattn:

Faite Kcriaa Heidkm in to Mite des teachs Ton auf Mimm ZugewonresPiicramnPROI.

a«icfB(ia)iOt'W]n«teintindioilalM*illiwt»arltes<g«i»sstii

MCEVnORE InUHF. Mbd'enntalm^monosoxiopwbatre: •PAL, nonnaG.bBncoll)0%.

Pei la piessa SCART. Irwic d'emata 1 Vcc. moniscoK pM barn:

Cokxe. CwrasB Luc< a mea area. **Suoni** mnino. Proyaniffla designalo PR 01

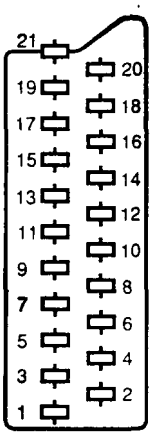
Tensiau continue ntevate nspelto aria massa con ufiwnametro nuflwica.

BECEPTOR: En UHF, mil de fntada 1 niV, nn A banas: -PAL, norma G. fanco 1011%.

Pa b tana Penleleisoi. n»ei ae ennoll 1 Vet roa ^ tiara.

Cola. Contiaste. uz a miud de *emu* Smdo mnnu. PfairamaafectaooPROI,

Tensioriescontinuasmarcadasafinla Qona^masaconunnljfnetrodigrtaL



NOTE :(MAIN) ... etc. identifies each pcb module.

NOTE :(MAIN)... etc. reperes des platines constituant l'appareil.

HINWEIS : (MAIN) ...usw. Kennzeichnungen der Platinen, aus denen das Gerat zusammengesetzt ist.

NOTA :(MAINJ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

NOTA :(MAIN).,. etc. marcas de las placas que constituyen el aparato.

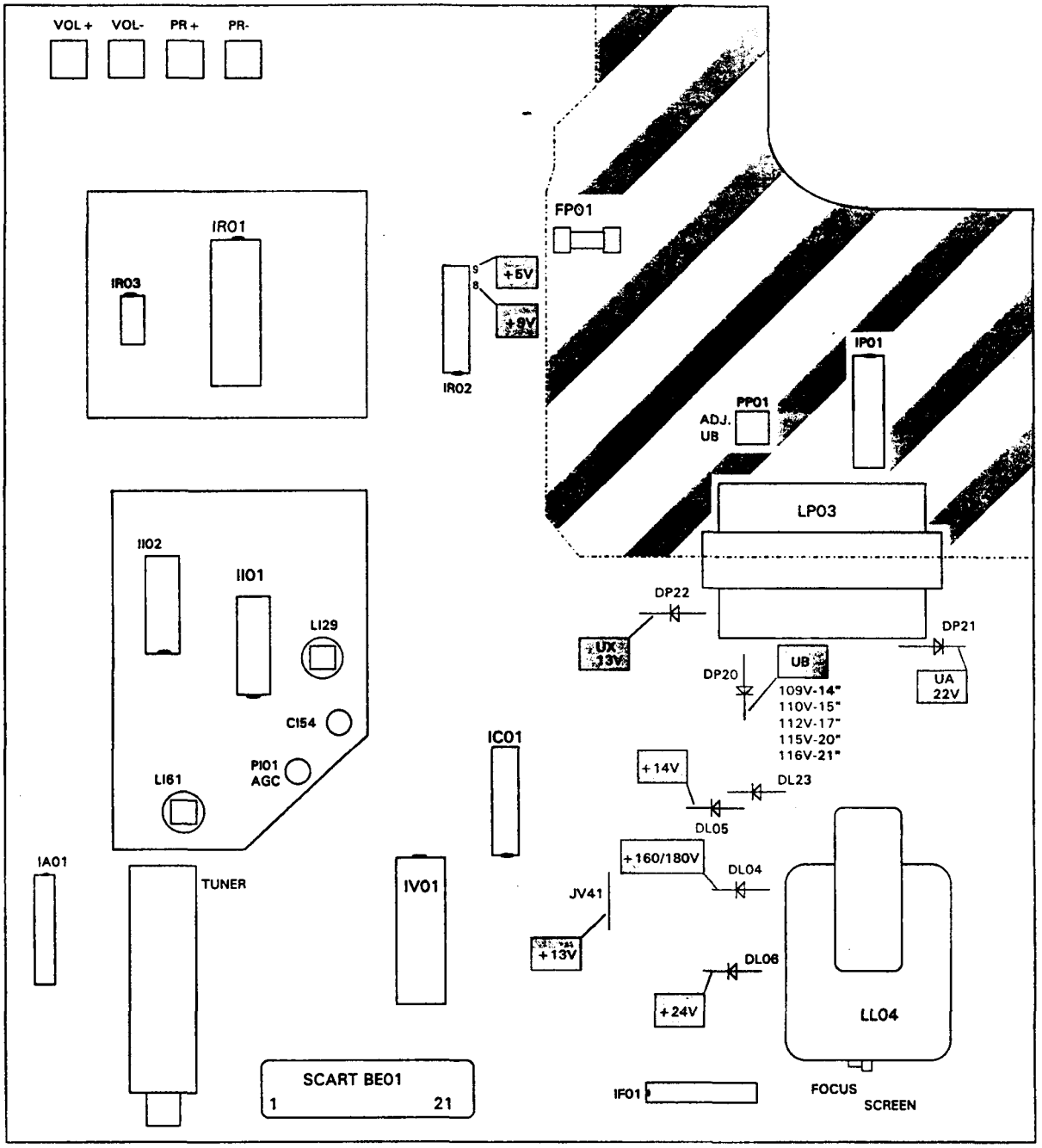
⌒		ENGLISH	FRANCAIS	DEUTSCH	ITALIANO	ESPANOL
1	G»	AUDIO •R"	AUDIO "D"	AUDIO -R"	AUDIO "0"	AUDIO "D"
2	^)	AUDIO "R"	AUDIO "D-	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	G»	AUDIO "L"	AUDIO -G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	—	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	—	• BLUE"	• BLEU -	"BLAU"	"BLU"	"AZUL"
6	-®	AUDIO •L' MONO	AUDIO -G- MONO	AUDIO •L' MONO	AUDIO'S' MONO	AUDIO •I- MONO
7	^)	• BLUE •	"BLEU •	•BLAU"	BLU	AZUL
8	-®	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	•COMMUTAZIONE LENTA'	•CONMUTACION LENTA-
9	–.	• GREEN"	"VERT"	•GRUN"	"VERDE"	"VERDE"
10	NC					
11	-®	"GREEN"	"VERT™	"GRUN"	"VERDE"	"VERDE-
12	NC					
13	—	•RED"	"ROUGE"	"ROT"	•ROSSO"	"ROJA"
14	NC					
15	-^	•RED-	"ROUGE-	"ROT"	"ROSSO"	"ROJA"
16	^)	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	•COMMUTAZIONE BAPIDA-	•CONMUTACION RAPIDA-
17	—	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	—	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	•COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIOA"
19	O»	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	-©	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO OSINCRO	VIDEO 0 SINCRO
21	O»	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	ARMATURA DELLA SPINA	BLINDAJE DEL ENCHUFE

: OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA

: INPUT - ENTREE - EINGANG - ENTRATA - ENTRADA

: EARTH - MASSE - MASSE - MASSA - MASA

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN
POSIZIONE REGULATORI DI SERVIZIO - SITUACION DE LOS AJUSTES



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

UB	PP 01	Contrast, brightness and volume to minimum	DP20	14" : 109 V 15" : 110V 17" : 112V 20" : 115V 21" : 116V
U G2	SCREEN	AV (no Signal, black screen)	CRT Pin 3,7,9 (Pin 6,8,11) highest output	130V-14" 140V-17" 160V-20"
Focus	**FOCUS**	Test pattern (standard values)		Sharp picture

SERVICE MODE

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Usystem, Focus and Screen voltages.

1. Service Mode Access

1.1 With the RCU. switch the TV set into the **"Standby"** mode.
1.2 Switch **"Off"** the TV set using the mains supply switch.
1.3 Whilst depressing the RCU **"Blue(VT)"** button, switch **"On" the TV set** using the mains supply switch.
1.4 Release and press once again the RCU **"Blue(VT)" button,** the following **"Set-Up"** menu should be displayed.

SET-UP	VIDEO	GEOM
xxx 123456789		Configuration

Important: The Service Mode cannot be entered if any equipment is connected to the Scart socket, i.e. pin 8 switching voltage present.

2. Function Selection

2.1 With the Volume "+" and "-" RCU buttons, highlight the menu containing the function to be aligned.
2.2 Press the RCU "Blue(VT)" button to highlight the function to be aligned.

3. Switching between Service and TV modes

3.1 Whilst in the Service Mode, normal TV controls are disabled, to enable these controls whilst in the Service mode (i.e. for channel changing etc.) press the "TV" button on the RCU. To return to the Service mode, press the "Blue(VT)" button on the RCU

4. Alignment and storing new function value

4.1 The current value of the selected function is displayed in an hexadecimal form to the right of the functions name. This value is adjusted by means of the Volume "+" and "-" RCU buttons.
4.2 To STORE the functions new value, highlight MEMO and press the Volume "+" RCU button.
4.3 To RESTORE the functions original value, highlight R-STO(RE) and press the Volume "+" RCU button.
4.4 Selecting the **ROM** function downloads the production software default values, these are not very accurate and should only be used in very special cases.

5. Leaving the Service Mode

5.1 To leave the Service mode either, switch the **TV set into "Standby"** or switch **"Off"** the mains supply.

MODE SERVICE

Le mode service sert au reglage de l'appareil. Toutes les operations **de** reglage s'effectuent a l'aide de la telecommande (sauf la **tension de** systeme, les mises au point et les tensions de grille-ecran).

1. Acces du mode service

1.1 Commuter le televiseur en position de veille avec la telecommande
1.2.Mettre le televiseur hors service par l'interrupteur secteur.
1.3 -Maintemr la louche bleue enfoncee et mettre simultanement le televiseur en marche avec l'interrupteur secteur.
1.4 Le menu suivant apparait apres avoir appuye a nouveau sur la louche bleue

SET-UP	VIDEO	GEOM
xxx 123456789		Configuration

Attention : Le mode service n'est pas accessible si un appareil est connecte a la prise peritelevision.

2. Selection de la fonction

Par les touches +/- de la telecommande vous pouvez choisir le menu correspondant (SET UP, VIDEO ou GEOM) et le "feuilleter" avec la louche bleue(VT).

3. Inversion entre modes service et TV

Les fonctions television normales ne sont pas utilisables en mode service. **Si** elles sont necessaires en mode service (p. ex. changement de programme), la touche (**TV**) permet de commuter en mode **TV. Vous** pouvez revenir au mode service en appuyant sur la touche bleue.

4. Reglage des fonctions selectionnees et memorisation

La valeur momentanee de la fonction selectionnee est indiquee sous forme hexadecimale a droite, a cote de la position a regler et pent etre modifiee avec la telecommande par la touche + ou -.
La ligne MEMO permet de memoriser les nouvelles valeurs de reglage avec la touche +. La ligne R-STO(RE) permet de rappeler les valeurs memorisees en NVM. Les valeurs par defaut du logiciel peuvent etre chargees en selectionnant la ligne ROM. Elles ne constituent cependant qu'une approximation du reglage et ne doivent etre utilisees qu'en cas de nesessite.

5. Abandon du mode service

Pour abandonner le mode service, commuter le televiseur **en** position **de** veille ou le mettre hors service par l'interrupteur secteur.

SERVICE-MODE

Der Service-Mode wird fur den Gerateabgleich benotigt. Alle Einstellungen erfolgen mil der Fernbedienung (bis auf Systemspannung, Fokuseinstellung **und** Schirmgitterspannung).

1.Service-Mode einschalten

1.1 Mit der Fernbedienung das Fernsehgerat in Stand-by schalten.
1.2 Das Gerat mit dem Netzschalter ausschalten.
1.3 Die blaue Taste der Fernbedienung gedruckt halten und gleichzeitig das Gerat mil dem Netzschalter einschalten.
1.4 Das folgende Menu erscheint nach erneutem Drucken der blauen Taste

SET-UP	VIDEO	GEOM
xxx 1234567B9		Configuration

Achtung: Der Service-Mode laBt sich nicht einschalten, wenn an einer Euro-AV-Buchse ein Gerat aktiviert ist. d.h. die Schaltspannung aniiegt.

2. Funktionswahl

Mit den Tasten +/- wird **das entsprechende Menu gewahlt. welches mit der** blauen Taste "durchgebiattert wird".

3. Umschalten zwischen Service- und TV-Betrieb

Im Service-Mode sind die normalen Fernsehfunktionen nicht bedienbar. Werden diese im Service-Mode benfitigt (z.B. Programmwechsel), kann mit der Taste (TV) in den normalen TV-Betrieb geschaltet werden. Durch Driicken der blauen Taste gelangt man zuruck zum Service Mode.

4. Abgleich der gewahlten Funktion und Speichern

Der momentane Wert der gewahlten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste + bzw. - auf der Fernbedienung verandert werden.
Die Anderungen des jeweiligen Menus konnen unter MEMO **mit def *Taste** gespeichert. bzw unter R-STO(RE) ruckgangig gemacht werden.
Im Meniipunkt ROM kann man die Software-Defaultwerte laden. **Sie sind** aber nur eine grobe Annaherung an den noch vorzunehmenden Abgleich **und** sollten nur im Notfall verwendet werden.

5. Service-Mode verlassen

Zum Venassen des Service-Mode **das Gerat in Stand By schalten Oder mit dem** Netzschalter ausschalten.

SERVICE-MODE

Il Service-Mode e necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (a parte la tensione del sistema, le regolazione del fuoco e le tension! della griglia schermo).

1. Attivazione del Service-Mode

1.1 Commutare il televisore in stand-by con il telecomando.
1.2 Spegnere l'apparecchio con l'interruttore di rete.
1.3 Tenere premuto il pulsante blu e accendere contemporaneamente l'apparecchio con l'interruttore di rete.
1.4 Il seguente menu appare non appena si aziona nuovamente il pulsante blu

SET-UP	VIDEO	GEOM
xxx 1234567B9		Configuration

Attenzione: Il Service-Mode non si puo attivare se e attivato un apparecchio collegato alia presa di pentelevisione AV, doe se e presente la tensione ausiliaria.

2. Scelta della funzione

Con i last! +/- si seleziona il relative **menu che pud "essere sfogliato" con** il pulsante blu.

3. Commutazione fra funzione Service-Mode e TV

Nella modalita Service-Mode non si possono attivare le normali funzioni televisive. Se occorre richiamarle in Service-Mode (ad es. se si vuole cambiare il programma). si puo attivare la normale modality TV con il pulsante (TV). Premendo il pulsante blu si riattiva il Service-Mode.

4. Taratura della funzione scelta e memorizzazione

Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alia posizione da allineare e pub essere cambiato con il pulsante + o - del telecomando.
Le modifiche effettuate net relative menu si possono memorizzare in MEMO **con** il pulsante + oppure annullare in R-STO(RE).
Nell'opzione di menu ROM si possono caricare i valori di default del software. Essi rappresentano pero una taratura approssimativa prima di eseguire quella definitiva e si dovrebbero usare solo in caso di emergenza.

5. Disattivazione del Service-Mode

Per disattivare il Service-Mode, commutare l'apparecchio in stand-by 0 spegnerio con l'interruttore di rete.

MODO SERVICIO ©

Se necesita el MODO SERVICIO para ajustar el aparato. Todos tos ajustes **se** hacen con el mando a distancia (a exception de la tension del sistema, los ajustes del toco y las tensiones de la rejilla de pantalla).

1. AJUStar el MODO SERVICIO

1.1 Con el mando a distancia conectar a STANDBY el televisor.
1.2 Desconectar el aparato con el interruptor de la red. ~
1.3 Mantener pulsada la tecia azul y conectar el aparato simultaneamente con el interruptor de red.
1.4 El menu siguienteaparecevolviendo a pulsar la tecia azul.

S E T - U P | V I D E O I G E O M I

xxx 123456789 Configuration

Atencl6n: No se puede conectar el MODO SERVICIO cuando en Eurotoma-AV esta activado un aparato, es decir, cuando existe tension de CO"6"6"-

2. Seleccion de las funciones

Con las teclas +/- **se** selecciona el menu correspondiente que "hojea" con la tecia azul.

3- Conmutar entre funcionamiento Servicio y TV

En 61 MODO SERVICIO las fundones de television normales no pueden operarse. Si se necesitan estas en MODO SERVICIO (p.ej,, cambio **de** programa), con la tecia (TV) puede conmutarse a la operacion TV normal. Pulsando la tecia azul sevuelveal MODO SERVICIO.

4. Ajuste de la funcion elegida y almacenamiento

El valor momentaneo de la funcion elegida es indicado de modo hexadecimal a la derecha, al lado de la posicion a ajustar, y puede cambiarse con la tecia + o bien - en el mando a distancia. Los cambios del menu respective pueden almacenarse bajo MEMO con la tecia + o bien anular bajo RESTORE .

En e1 P"10 de nienu ROM se pueden cargar los valores por defecto del software. Sin embargo, son solo una aproximaci6n basta al ajuste aun a realizar y deben usarse solo en caso de emergencia.

5_ Salir del MODO SERVICIO

Conmute el aparato a STANDBY a fin de salir del MOOO SERVICIO 0 desconectar con el interruptor de la red.

Example

SET-UP
Software code and configuration
NORM B BD BLD BIL L I
VT LANG 0 1 2
- R-STO + MEMO 0 ROM

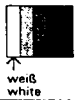
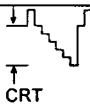
Example

VIDEO		
R-DC	00-3F	23
G-DC	00-3F	24
R-DRV	00-3F	1D
G-DRV	00-3F	21
B-DRV	00-3F	1F
PEAK		(-/+)
+ MEMO		
+ R-STORE		- ROM

Example

GEOM		
H-PHA	00-3F	26
V-POS	00-07	02
V-AMP 50Hz	00-3F	25
V-AMP 60Hz	00-3F	1C
- R-STO	+ MEMO	0 ROM

SET-UP	
NORM	Standards: B = BG PAL-SECAM L = L SECAM(F) D = DKK´ SECAM I = I PAL (UK / IRELAND)
VT-LANG.	Video Text Language 0: GB, D, SF, I, F, E, CZ, GB 1: PL, D, SF, I, F, YU, SZ, R 2: GB, D, SF, I, F, E, TR, GB

VIDEO		
R-DC*		
G-DC*		
R-DRV		
G-DRV		
B-DRV		
PEAK		14" : 60V 15" : 70V 17" : 80V 20" : 90V 21" : 95V

GEOM		
H - PHA		
V - Pos		
V - Amp 50 Hz		
V - Amp 60 Hz		

TV configuration

T	TEXT MODULE
S	STEREO MODULE
M	MONO

* adjust separate for PAL and SECAM
* régler séparément pour PAL et SECAM
* für PAL und SECAM getrennt einstellen
* regolare separatamente per PAL e SECAM
* ajustar separadamente para PAL y SECAM

(from Software version EM11 onward)

TABLE OF DIFFERENT VALUES - TABLE DES DIFFERENTES VALEURS •

** TX 91 TABLE

NORM	BGDKK'		BGHILL '		BGDKK`	BGHILL`
COLOUR	PS		PS		PS(NTSC VIDEO)	
ITEM / SCREEN SIZE	14"	20"	14"	20"	14"	14"
CI10 CI11 CI12 CI13 CI14 CI15 CI36 CI37 CI52 CI53 CI54 CI60 DI50 DI51 DI52 II02 JI01 JI02 JI03 JI04 JI07 JI12 JI13 JI16 JI22 JR31 JR47 QI02 RI11 RI33 RI35 RI38 RI47 RI50 RI51 RI52 RI53 RI54 RI55 RI56 RI57 RR20 TI03 TI04 TI28 TI30	DEL	DEL	INSERT	INSERT	DEL	INSERT
CI64 JA12 JI24 JI25 JI36 JI37 JR35 JR39 RI62 RI70 RI71 RI72 TI02	INSERT	INSERT	DEL	DEL	INSERT	DEL
CI62	DEL		DEL	DEL	DEL	DEL
CI66	39P		18P	18P	39P	18P
CI67	6P8		2P2	2P2	6P8	2P2
CI68	6P8		2P2	2P2	6P8	2P2
DI33	STRAP	STRAP	BA282	BA282	STRAP	BA282
DI34	STRAP	STRAP	BA282	BA282	STRAP	BA282
RI04	68R	68R	180R	180R	68R	180R
RI32	10K	10K	1K	1K	10K	1K
IV01	STV2112	STV2112	STV2112	STV2112	STV2118	STV2118
QCB2	DEL	DEL	DEL	DEL	3.58MHz	3.58MHz
QI01	FILSW K2955M	FILSW K2955M	-	-	FILSW K2955M	-
QI31	FILC 6.5MHz	FILC 6.5MHz	FILC 6MOHZ	FILC 6MOHZ	FILC 6.5MHz	FILC 6MOHZ
QI33	FILC 6M5HZ	FILC 6M5HZ	FILC 6MOHZ	FILC 6MOHZ	FILC 6M5HZ	FILC 6MOHZ
J406/CI38/CI39	TO BE DEFINE					
RI60	0R0	0R0	2K7	2K7	0R0	2K7
IR01 PIN 12	BG-TRAP	BG-TRAP	OPEN	OPEN	BG-TRAP	OPEN
IR01 PIN 31 - RR20 (SOUND SW)	OPEN	OPEN	180R	180R	OPEN	180R
DI62	Deleted	Deleted	1N4148	1N4148	Deleted	1N4148
RI74	0R0	0R0	56R0	56R0	0R0	56R0
CH01	18U0	18U0	47U0	47U0	18U0	47U0
LI61	29.65MHz	29.65MHz	32.4MHz	32.4MHz	29.65MHz	32.4MHz
LI63	5,6UH	5,6UH	4,7UH	4,7UH	5,6UH	4,7UH
CA07	330p	330p	470p	470p	330p	470p
CA09	330p	330p	390p	390p	330p	390p
RA23	5K6	5K6	5K6	5K6	5K6	5K6
RI12	5K6	5K6	5K6	5K6	5K6	5K6
RI13	5K6	5K6	5K6	5K6	5K6	5K6

** TX91 COMPONENTS MATCHING FOR FBT ACCORDING TO SCREEN
14" 15" 17" 20"&21"

SCREEN SIZE	14" (EU/TTT)	15" (TTT)	17" (EUROPE)	20" (EUROPE)	20" (EUROPE)
TUBE	CHUNG HWA	TOSHIBA	PHILIPS	POLKOLOR	POLKOLOR
TUBE REF.	370KRB22-TC38	A36JAR40X01	A41EAM40X01	A48EEV13X01	A48EEV13X01
LP03	20264960	20264960	20264960	20349930	20349930
RP20	RMF R27 3W	RMF R27 3W	RMF R27 3W	RMF R22 3W	RMF R22 3W
JP06	STRAP 10MM	STRAP 10MM	-	STRAP 10MM	STRAP 10MM
JP07	-	-	STRAP-15MM	-	-
LL05	FCV-1410-E18	FCV-1410-E18	FCV-1410-E18	FCV-2010E07	203832 10 PI
LL03(LIN COIL)	LL90uH	LL90uH	LL90uH	LL58uH	LL58uH
CL04(TUN CAP)	CFS 6N5 1K6	CFS 6N5 1K6	CFS 6N3 1K6	CFS 6N3 1K6	CFS 7N6 1K6
CL18	CC 680P 2KV	CC 680P 2KV	CC 680P 2KV	CC 680P 2KV	CC 680P 2KV
CL05(S.CAP)	CFS 390N 250V	CFS 390N 250V	CFS 390N 250V	CFS 470N 250V	CFS 470N 250V
RL22	RMOF 91K 1W	RMOF 82K 1W	RMOF 91K 1W	RMOF 82K 1W	RMOF 82K 1W
RL13	RCFF 0.56R 0.5WJ	RCFF 2R7 0.5WJ	RCFF 2R7 0.5WJ	RCFF 1.5R 0.5WJ	RCFF 1.5R 0.5WJ
RL14/JL12	RCF 1R5 0.5W	RCF 2R2 0.5WJ	RCF 2R2 0.5WJ	RCF 2.2R 0.5WJ	RCF 2.2R 0.5WJ
JL07/LL07	STRAP 10MM	STRAP 10MM	LF100UF	STRAP 10MM	STRAP 10MM
RF07	RMFMN 121R 1%	RMFMN 121R 1%	RMFMN 127R 1%	RMFMN 121R 1%	RMFMN 121R 1%
RF08	RMFMN 909R 1%	RMFMN 866R 1%	RMFMN 909R 1%	RMFMN 866R 1%	RMFMN 866R 1%
RF15	RCFMN 390K 0.1WJ	RCFMN 360K 0.1WJ	RCFMN 390K 0.1WJ	RCFMN 330K 0.1WJ	RCFMN 330K 0.1WJ
CRT(INTEGRATED)	7 TR VERSION	7 TR VERSION	IC VERSION	IC VERSION	IC VERSION
MAIN PCB (A900)	2026155A	2026155A	2035015A	2035015A	2035015A
UB MIN BEAM CURRENT	+109V	+110V	+112V	+115V	+116V
JP12/LP05	STRAP 10mm	STRAP 10mm	STRAP 10mm	STRAP 10min	STRAP 10mm
CF05	CE1000UF	CE680UF	CE680UF	CE1000UF	CE1000UF
RL12	RCFF 0.56R	RCFF 1R5	RCFF 1R5	RCFF 0.56R	RCFF 0.56R
DP21	IS1834	IS1834	IS1834	PFR852	PFR852
CL08	CPM 6N8 100V	CPN 6N8 100V	CPN 6N8 100V	CPN 8N2 100V	CPN 8N2 100V
RL08	RMOF 33R 1W	RMOF 33R 1W	RMOF 33R 1W	RMOF 18R 1W	RMOF 18R 1W

TABLE OF DIFFERENT VALUES - TABLE DES DIFFERENTES VALEURS •

** TX 91 TABLE

NORM	BGDKI		BGHILL		BGDKK'	BGHILL'
COLOUR	PS		PS		PS(NTSC VIDEO)	
SCREEN SIZE	14"	20"	14"	20"	14"	14"
CR01	FOR DC-DC CONVERTER					
CH08/CH14/CV08/CH16/CK04/CH17	TO BE DEFINE					
CA20/CA21/RI17/LI04	FOR STEREO BOARD					
LV87	FOR CINCH BOARD ONLY					
CK07/CK08/CK09/CK10	TO BE DEFINE					
TXT BOARD	OPTION TOCOM 20361450(4 PAGE)					
STEREO MODULE	OPTION STEREO MODEL TOCOM : 20420570 NICAM/STEREO TOCOM : 20335240					
BA04/JA05	WITH BA04 DELETED JA05					
BT01/BT1A	20174620	20174650	20174620	20174650	20174620	20174620
CR19/CR20/CR21/CR22	TO BE DEFINE					
SR01	OPTION FOR DOUBLE SCART					
BR08	OPTION FOR PSN LED INDICATOR					
CA20 CA21 CC21 CC23 RC23 CF01 MF02	TO BE DEFINE					
RR69	INSERTED 1K0 FOR CLK/RADIO OPTION.					
RR72	INSERTED 1K0 FOR CLK/RADIO OPTION.					
RT66 RT76 CT56 CT66 CT76	TO BE DEFINE					
BR09	INSERTED FOR CLK/RADIO OPTION.					
DR06 JR59 JA25 RA07 TA04 TA05 DA04 DA05 CA14 CA08	DELETED WITH CLK/RADIO OPTION					
DK01	OPTION FOR ATTACHED KEY BOARD ONLY					
CP10	TO BE DEFINE					
BR07, RR88	TO BE DEFINE					
RV25	RCFMN 20K FOR 14"					
LP01, JP08, JP11	DELETED LP01 & REPLACE BY STRAP 10 mm (JP08,JP11) (POWER CORE MUST USED 2 X 300UH SUPPRESSION CHOKE) (FOR BGHILL' SET ONLY)					
RI17/ LI04	FOR STEREO BOARD					

DIFFERENCE BEETWEEN PSN BGDKK', PAL BG AND PAL I

	PSN BGDKK' (NTSC VIDEO)	PAL BG (NTSC VIDEO)	PAL I (NTSC VIDEO)
POS	DESCRIPTION	STRUCTURED NAME	STRUCTURED NAME
CI63	CCMIN INF 50VK	RCFMN 0 OHM	RCFMN 0 OHM
CI64	CCMIN 4N7 16V M	DELETED	DELETED
CI65	CCMIN 47P0 50VJ	DELETED	DELETED
CI66	CCMIN 39P0 50VJ	DELETED	DELETED
CI67	CCMIN 6P8 50VK	DELETED	DELETED
CI68	CCMIN 6P8 50VK	DELETED	DELETED
DI33	STRAP 0.6X4.5X12.5	DELETED	STRAP 0.6X4.5X12.5
DI34	STRAP 0.6X4.5X12.5	STRAP 0.6X4.5X12.5	DELETED
DI60	DIODE BA282	DELETED	DELETED
LI61	LA7X7 29.65MHz	DELETED	DELETED
QI01	FILSW K2955M	FILSW G1962M	FILSW J1952M
QI31	FILC 6.5MHz	DELETED	FILC 6MHz
QI32	FILC 5.5MHz	FILC 5.5MHz	DELETED
QI33	FILC 6.5MHz	DELETED	FILC 6MHz
QI34	FILCTRP 5M74	FILCTRP 5M74	DELETED
RI04	RCFMN 68R 0.1WJ	RCFMN 0 OHM	RCFMN 0 OHM
RI27	RCFMN 68R 0.1WJ	RCFMN 56R 0.1WJ	RCFMN 56R 0.1WJ
RI60	RCFMN 0R	DELETED	DELETED
RI62	RCFMN 2K7R 0.1WJ	DELETED	DELETED
RI63	RCFMN 150KR 0.1WJ	DELETED	DELETED
RI70	RCFMN 2K7R 0.1WJ	DELETED	DELETED
RI71	RCFMN 2K7R 0.1WJ	DELETED	DELETED
RI72	RCFMN 3K9R 0.1WJ	DELETED	DELETED
TI02	SMD BC848B	DELETED	DELETED
JA12	STRAP 0.6X4.5X10	DELETED	DELETED
JR39	RCFMN 0 OHM	DELETED	DELETED

MICROPROCESSOR

RF NORM / SOUND	L,AM	BG,FM5.5	I,FM6.0	DKK',FM6.5
PIN 12 (BG TRAP)	0	1	0	0
PIN 31 (SOUND SW)	1	1	0	1

DIFFERENCE BEETWEEN MONO &ISTEREO 20" (BGHILL')

;

POS.	MONO	STEREO	POS.	MONO	STEREO	POS.	MONO	STEREO	POS.	MONO	STEREO
BA03	2 WAY	DEL	CI70	33P	DEL	JA24	12.5MM	10R0	RI17	DEL	2K7
BA05	DEL	7 WAY	CI71	1N	DEL	JA25	12.5MM	DEL	RI27	100R	110R
BA06	DEL	9 WAY				JA38	DEL	0R	RI32	1K	DEL
						JI12	12.5MM	DEL	RI33	1K8	DEL
CA02	470U	DEL				JI13	12.5MM	DEL	RI35	4K7	DEL
CA03	100N	DEL				JI16	10MM	DEL	RI38	1K8	DEL
CA04	1U	DEL	DA04	BZX55B2V7	DEL	JR22	DEL	0R	RI47	4K7	DEL
CA05	22N	DEL	DA05	BZX55B2V7	DEL	JR35	DEL	0R	RR20	100R	DEL
CA06	22N	DEL	DI33	E7296	DEL				RR72	1K8	DEL
CA07	150P	DEL	DI34	E7296	DEL	LI04	DEL	22U	TA04	BC848B	DEL
CA08	2N2	DEL				LI62	12U	DEL	TA05	BC848B	DEL
CA09	150P	DEL	IR01	ST9291J6B1	ST92E91J7	LI63	4U7	5U6	TI30	DTC144EK	DEL
CA13	47U	DEL									
CA14	220U	DEL	QI01	G1965M	IFWG3965M	NA01	IC-MONO	DEL			
CA15	47U	DEL	QI32	5.5MHz	DEL						
CA16	220N	DEL	QI33	6MHZ	DEL	RA07	2K2	DEL			
CA17	4N7	DEL				RA08	56K	DEL			
CA39	470U	DEL				RA09	4K7	DEL			
CI14	10U	DEL	JA01	DEL	0R	RA10	56K	DEL			
CI15	10U	DEL	JA04	0R	DEL	RA11	10K	DEL			
CI16	22U	DEL	JA07	10MM	DEL	RA21	150K	DEL			
CI17	22U	DEL	JA08	DEL	12.5MM	RA22	220K	DEL			
CI19	68N	DEL	JA10	DEL	10MM	RA23	2K7	DEL			
CI22	1U	DEL	JA11	DEL	10MM	RA24	47R	DEL			
CI23	CCCMIN 22N	RCFMN 0R	JA15	10MM	DEL	RA25	1R	DEL			
			JA17	0R	DEL	RA26	470R	DEL			
CI24	22N	DEL	JA20	12.5MM	DEL	RI12	5K6	DEL			
CI31	33p	DEL	JA21	DEL	10MM	RI13	5K6	DEL			
CI36	22N	DEL	JA22	DEL	10MM	RI14	220R	DEL			
CI37	22N	DEL				RI15	100K	DEL			

^BRAND

	PIN9	PIN8
TELEFUNKEN	0	1
BRANDT /SABA / FERGUSON	1	0
THOMSON / NMD	1	1

≠ CRT IC VERSION

	14"	17"	20"	21"
RT06	62R	62R	220R	220R
CT06, RT10 RT26, RT46	TO BE DEFINE			

@ VOLTAGE FOR CRT

14"	20"	21"
160V	180V	180V

COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE
LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

Solder side - Cote soudure - Lotseite - Lato saldatura - Lado soldaduras

CA01	G11
CA05	F11
CA06	G11
CA07	F11
CA08	F11
CA09	C11
CA17	AH
CA20	E11
CA21	E11
CC01	A7
CC02	C7
CC03	C7
CC10	06
CC11	C6
CC12	C5
CC13	D6
CC14	C6
CC18	D6
CC19	C7
CC20	D7
CF01	A3
CF02	A3
CF11	A4
CF21	A2
CH03	C9
CMOS	B10
CH09	B9
CH10	A10
CH14	B10
CH15	B10
CH16	A10
CH17	A9
CI01	A8
CI02	A8
CI03	A8
CI04	A9
CI05	C10
CI07	D9
CI08	D9
CI10	E10
CI13	F10
CI18	D11
CI19	F9
C123	E9
CI24	F9
CI25	E9
CI27	E8
CI28	E8
CI31	F8
CI33	E9
CI34	E8
CI36	G8
CI37	F7
CI38	G10
CI39	G9
CI52	E8
C153	E7
CI60	D8
CI62	D9
CI63	D10
CI64	J11
CI65	D9
C166	D9
CI67	C10
CI68	010
CI69	E9
CI70	67
CI71	F8
CK04	L6
CK05	J9
CK06	L9
CL02	AO
CL14	D4
CL22	C4
CP07	H3
CP19	G2
CP23	H2
CP26	H1
CP28	H1
CP39	EO
CR04	H9
CR05	K9
CR11	J10
CR12	J9
CR13	J9
CR14	H8
CR15	H8
CR16	K8
CR17	J9
CR19	L10
CR20	K10
CR21	K10
CR22	K10
CR24	K7
CR27	J9
CR28	H9
CR90	J11
CV03	B7
CV04	C7
CV05	B8
CV06	B8
CV07	B8
CV08	F6
CV09	B5
CV10	B7
CV11	B7
CV12	B7
CV15	D7
CV17	C7
CV18	C7
CV19	C7
CV20	C7
CV21	B8
CV22	C8
CV23	C8
CV24	C7
CV25	C8
CV27	C7
CV28	C7
CV30	A5
CV31	A9
CV34	C4
CV35	B7
CV40	A5
JA01	E11
JA04	A8
JA05	A11
JA06	E11
JA13	A10
JA17	G10
JA18	H10
JA38	E11
JC03	B7
JF01	A4
JF02	B4
JH02	C9
JH03	B10
JH09	C9
JI01	D9
J102	D9
JI04	E10
J105	E8
J106	E10
J108	08
J109	G9
J115	A9
JI18	A8
J121	D10
J123	F8
J124	F10
J125	F10
J136	F9
J137	F9
JK08	L10
JK19	L6
JL04	CO
JL12	B3
JL16	A3
JR01	G6
JR14	K7
JR18	K11
JR20	H8
JR21	L7
JR22	H11
JR23	L7
JR26	J11
JR27	K8
JR29	K9
JR30	K9
JR31	J8
JR34	J11
JR35	K11
JR36	K11
JR39	J10
JR42	H11
JR43	H10
JR45	J8
JR57	K10
JR58	K10
JR59	K8
JV02	A5
JV07	A9
JV40	D5
JV46	E7
RA01	H11
RA07	F11
RA08	C11
RA09	G11
RA10	F11
RA11	G11
RA20	J11
RA21	E11
RA22	C11
RA23	B11
RA24	C10
RA27	H11
RA37	G11
RA38	G11
RA39	G10
RC04	D6
RC05	D5
RC06	C7
RC07	D7
RC08	D5
RC20	D7
RC23	D6
RF06	B5
RF07	C4
RF08	B4
RF11	A3
RF12	A3
RF13	A3
RF15	A4
RF21	A2
RF22	A2
RF31	C3
RF32	C4
RF33	C4
RF34	C4
RF35	C4
RH04	J8
RH05	J8
RH06	C9
RH07	B9
RH09	K7
RH10	J7
RH13	C9
RH14	B9
RH15	A9
RI03	C10
R104	D10
RI05	D9
RI06	D9
RI07	D9
RI09	D10
RI10	D10
RI11	E9
RI12	C10
RI13	C11
RI15	RIO
RI17	D10
R119	D8
RI20	D9
RI21	D8
RI22	E9
RI23	D8
RI24	D8
RI25	E8
RI27	F8
RI29	F7
RI30	B7
RI32	F8
R133	F7
RI34	F8
RI35	G9
R138	F7
RI40	G9
RI41	G8
R142	G7
RI43	G7
RI44	B9
RI45	A8
RI47	G10
RI50	E9
RI52	E9
R153	D8
R154	D8
RI55	E8
RI56	E7
RI57	E7
RI60	D10
RI62	D10
RI63	D10
R164	E9
R170	H11
RI71	J11
R172	E9
RI72	J11
RI74	D8
RK07	K9
RK08	J9
RK12	L10
RK13	L10
RL02	BO
RL03	AS
RL04	A1
RL21	D4
RL23	D2
RP08	H3
RP09	G2
RP11	G2
RP13	H1
RP18	G1
RP19	G1
RP23	H2
RR04	K7
RR05	J6
RR06	J6
RR07	J8
RR11	J8
RR12	J8
RR13	J7
RR15	J7
RR16	J8
RR18	J10
RR19	J10
RR23	K9
RR25	H10
RR26	H10
RR27	L6
RR29	K8
RR31	K8
RR32	B8
RR33	K8
RR34	J10
RR35	J10
RR36	J10
RR37	E6
RR38	E6
RR43	J9
RR44	K10
RR45	J10
RR46	J10
RR47	F6
RR49	H8
RR50	H8
RR51	H9
RR52	H8
RR54	H8
RR63	K11
RR64	K11
RR65	K11
RR66	H8
RR67	H9
RR69	K8
RR71	J7
RR72	J9
RR73	J9
RR74	F7
RR75	J7
RR78	J10
RR79	J10
RR80	J10
RR81	J9
RR83	H8
RR84	H7
RR85	H8
RR86	H8
RR87	K8
RV01	C5
RV05	B8
RV07	B8
RV09	B8
RV11	A7
RV15	B6
RV16	B6
RV17	B6
RV18	B6
RV21	C7
RV24	C6
RV25	C5
RV26	C8
RV28	06
RV29	06
RV30	C8
RV31	E7
RV35	B6
RV37	F6
RV38	F6
RV39	F6
RV40	B5
RV42	F7
TA01	G11
TA02	H11
TA04	F11
TA05	G11
TA06	G11
TF21	A2
TF31	C4
TH01	K8
TH02	B9
TH03	B9
TH04	A9
TI01	E10
TI02	J11
T103	E10
TI04	E10
T128	E7
T130	G10
TI31	F8
TI32	G7
TK02	K10
TR01	K7
TR02	H8
TV01	F6
TV02	E6
YA01	G11
YA03	C11
YA04	C11
YA05	B11
YA06	B10
YA07	B10
YC01	A6
YC02	C6
YC03	06
YC04	C8
YC05	C8
YC06	C6
YC07	C6
TI-01	AS
YF03	A4
YFOO	A4
YF10	B3
YF12	B4
YI01	C9
YI03	G10
YI06	J11
YI07	H9
Y108	F7
Y109	C10
YI10	D10
YI11	F7
Y112	F9
Y113	C9
Y114	E8
YI15	E10
YL01	A1
YL02	B1
YL03	CO
YL04	CO
YL05	C1
YL06	C1
YL08	C3
YL09	C4
YL10	D4
YL11	D4
YP01	J3
YP02	J1
YP03	J2
YP04	G1
YP05	HO
YP06	GO
YP07	02
YP08	EO
YP09	H6
YR01	G7
YR02	J9
YR03	J9
YR04	H9
YR05	J9
YR06	J9
YR07	H9
YR08	H9
YR09	J8
YR10	H9
YR11	K8
YR12	J6
YR13	H9
YR14	H9
YR15	J9
YR16	J8
YR17	J8
YR18	J8
YR19	J8
YR20	J8
YV01	C8
YV02	B6
YV03	B6
YV04	B6
YV05	B6

ABL	AVARAGE BEAM LIMITATION REGULATION DU SOURANT DE FAISCEAU
AF	AUDIO FREQUENCY FREQUENCE AUDIO
BCL	BEAM CURRENT LIMITATION LIMITATION DU COURANT DE FAISCEAU
DEG. COIL	DEGAUSSING COIL BOBINE DE DEMAGNETISATION
FB	FAST BLANKING COMMUTATION RAPIDE
H	HORIZONTAL DEFLECTION SIGNAL SIGNAL DE COMMANDE BALAYAGE HORIZONTAL
HTR	HEATER TENSION DE FILAMENT
I CUT	CUTOFF CURRENT COURANT DE CUTOFF
IP	DATA FROM INFRARED RECEIVER DONNEES ISSUES DU RECEPTEUR INFRAROUGE
SCL	SERIAL CLOCK SIGNAL HORLOGE SERIE
SDA	SERIAL DATA DONNEE SERIE
SIF	SOUND IF FISON
VAMP	VERTICAL AMPLITUDE AMPLITUDE VERTICALE
V POS	VERTICAL POSITION POSITION VERTICALE ,
VT	TUNING VOLTAGE TENSION DU TUNER
-V	VERTICAL DEFLECTION SIGNAL SIGNAL DE COMMANDE BALAYAGE VERTICAL

Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!
Importante: Ordinare sempre con il numero correspondenti di codice!
Importante: Pedir siempre los recambios con el numero correspondiente **codigo!**

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
		MOOULE/AUSTAUSCHTEILE:	EXCHANGE PARTS:
MTM4045	202.413.WI	MTM4045 TUNER	MTM404S TUNER
		CHASS1S-TE1LE	CHASSIS PARTS
BA01	231.0—	Siinnsf 2poitg. UP	2 pin contact houaing
BE01	3m.6St.001	ScartbuchrZlpoKg	Scan lockal
BT01	201.746.20	BikjronrfHiung	Caitiod* ray tub* sockt
BT01	353.902.1000	BildroDrlaxung	Camoda fy lub« lock*!
BT02	905.903.50	Stittleiste lOpollg RD UF	Contxct strip 10-pol*
BV01	309.650.064	Stitttiisr lOpoitg UF	Confct strki l0*pol«
BV02	905.903.50	S(it11«rt* lOpolig RD UF	Conucl •trk} 10-pol*
BV03	309.650.092	Stittl*iat*. 4polk) Ll*g*nd	ConUct lnip. 4-pol*
BX01	309.650.087	Stlltl*isle, lQpoHg. Natuf U	Contact itrk). 10-pot*
CH12	490.006.0607	10NF 250V 20% Keramlk-Konden««tor	10NP 250V 20% Ccap
CL04	101.B57.70	ON3F 1K6V 3.5% Filmkond*ne«tor	6N3F 1K6V 3.5% Film e«p
CL04	256.909	7N6F 1K6V 3,5% Filmkondwtof	7N6F 1K6V 3.5% Film C«P
C1.04	490.007.6232	7NOF tK5V3.5\ Filmkondenselor	7NOF 1K5V 3.5% Film Clp
CL05	309.433.766	390NF 250V 10% MKP-Kondenflor	39CNF 250V 10% Fitm cap
CL05			
CLIO	266.243	330PF 1KV 10% Kenmik-Kondanutor	33CPF 1KV 10% Cop
CL12	490 006.0607	10NF 250V 20% K»fmik-Kond»n»itor	10NF 250V 20% Cctp
CL15	266243	330PF 1KV 10% Keremik-Konden—tor	33CPF 1KV 10% C Clp
CL17	243879	330PF 400V 20% Kefamik-Kondensator	330°F 400V 20% C cap
CL18	242272	680PF 2KV 10% K*ramik-Kond*ns*lor	66CPF 2KV 10%C cap
CP01	252320	OU1F 27SV20%MP-Kono*n—tor	OU1F 275V 20% MPoly cap
CP04	203.867.60	1NF 1KV 10% K*ramik-Kond*n»tor	1NF 1KV 10% Ccap
CP05	309.442.972	1NSF 1KV K»famik-KondTT«tOf	1N5F1KVCcap
CP06	309.440.660	1NF 1KV 50% KerTDik-Kondensator	1NF KV 50% C cap
CP07	490.007.2242	100UF 400V Elko	100UF 400V E cap
CP09	203.687.60	1NF 1KV 10% Ker«mik-Konden««tor	1NF 1KV 10% C cap
CPU	243.879	330PF 400V 20% K*r«mik-Kondenietor	330PF 400V 20% Ccap
CP16	309.440.660	1NF 1KV 50% K*r«mik-Kondensii(or	1NF 1KV 50% C cap
CP21	101.09960	4N7F 400V 20% Ker«mik-KondensHor	4N7F 400V 20% C cap
CP21	309.951.997	Schutzkappe P.CP21/49/50	Profclion cap
CP29	490.006.0601	270PF 2KV 10% Kef-mik-Kondenstlof	27CPF2KV10%Ccap
CP35	266.243	330PF 1KV 10% KerTHik-Konden—lor	330PF 1KV 10% C cap
cpae	309.419.426	150UF 200V Elto	150UF 200V E cap
CP40	243.879	330PF 400V 20% K*r*mik-Kond*nutor	330PF 400V 20% Ccap
CT03	140.360.20	2N2F 2KV 50% K*rimllrKond*n«*tor	2N2P 2KV 50% C cap
CT82	246.746	2U2F 250V Elko	2U2F 250V E cap
CT«4	238.221	10NF 250VAC 400V Kenmik-Kondensetof	10NF C cap
CT85	309.442.978	1NF2KV20%KTBrnik-Kondensator	1NF2KV20»CC«P
DA05	3M.12f.111	BZX55B2V7 Z-DlOd*	BZX55B2V7 Z.Dioda
DC01	464.371	ZPD5.1 Z-DkKf	2PD5.1 Z-Olod*
DFOt	309.325.951	1N4001 OiOd*	1N4001 DlCKK
OF02	309.325.927	1N4148 Diode	1N414»010<1«
OF21	309.325.927	1N4148 DiOd*	1N4141 DioM
OF22	309.325.927	1N4148 OiOd*	1N4148 Diod*
OH01	353.111.2001	ZTK33C 1C	ZTK33C 1C
OK01	202.t85.20	LTL-4263 OiOd* LED rot	LTL-4263 Dioca LED r«d
DK01	239.018	Hairr. LED	LED liokll
OK03	202.985.20	LTL-4263 DiOd* LEO rot	LTL-4283 Dioda LEO lad
MK03	203.820.60	Hilfr LED	LED nokll
OL01	309.325.927	1N4146 Diod*	tN4i4goiod«
DL02	204.037.70	BYT52G Diod*	BYT520 Olod*
DL04	204.037.70	BYT52G DiOd*	B'rT52G Dioda
OLOS	204.037.70	BYT52G Diod*	BVT52G Oioda
DLM	204.037.70	8YT52G OiOd*	BrT52Q Dloda
OL07	309.325.951	1N4001 DiOd*	1N4001 Dloda
DLM	309.325.951	1N4001 Olod*	1N4001 Oloda
DL12	309.325.927	1N4148 Diode	1N4146 Dloda
OL13	243.375	BZX55B13V Z-Diode	B2X55813V Z-OK3da
DL20	309.325.927	1N414B Diod*	1N4148D.OO*
01.21	309.325.927	1N41480K)d*	1N4146 Olod*
DL23	309.325,927	1N414a Otod*	1N4148 Oioda
DP01	102.661.30	M100M Oiod*	M100M *OWH*
DP02	102.661.30	M100M Diod*	M100M Oloda
DP03	102-661.30	M100M Diod*	M100U Dloda
DP04	102.661.30	M100M DiOd«	M100U Dtoda
DP08	490.001,1567	BYT11-600 Oiod*	BYT11-600 Oloda
DPW	204.037.70	BYTS2Q Diod*	BYT52G Dloda
OP07	204.037.70	BYT52G Diod*	BYT52Q Olod*
DPO»	204.037.70	BYT920 Dtod*	BYT520 Diod*

Pos."	Art.-Nr. Part No.	Bezeichnung	Part
DP09	309.325.927	1N4141 DiOd*	1N414«04od»
DP10	309.325.927	1N4146 0>0d«	1N4148 Diode
DP11	309.325.951	1N4001 D>od«	1N4001 Diode
DP12	309,325,951	1N4001 Diode	1N4001 Diode
OP13	309.325 951	1N4001 Diode	1N4001 Diode
DP20	490.007.6951	BYT13-BOO Dtpd*	BYT13-800 Diod*
DP21	204.037.70	BYT52G Diode	BYT52G Diode
DP21	490.006.0461	PFR852 D.od«	PFR852 Diode
DP22	204.037.70	BYT52G D.ode	9YT52G Diode
DR04	464.358	ZPD0.2 0.5W 2-Dlode	ZPD8.2 0.5W Z-OiOd*
OROS	309325.927	1N4149 Diode	1N4148 Diode
OR06	309.325.927	1N4146 OlOtf*	1N4148 DiOd*
DTOt	464.358	ZPDB.2 0.5W Z-Olod*	ZPD8.20.5WZ-O.Od*
OT21	309.325.927	1N4148 Diode	1N4148 Diode
OT22	309325.927	1N414B D«od«	1N4148 Diode
DT23	464.879	BAV21 Diode	BAV21 Diode
DT41	309.325-927	1N4148 Diode	1N4148 Diode
DT42	309.325.927	1N414Q Diode	1N4148 Diode
OT43	464.879	BAV21 Diod*	BAV21 Diode
DT50	309.325 927	1N414aOode	1N4148 Diode
OTS1	462.299	BAV21 Diode	BAV21 Diode
OT52	309325.927	1N414B D'oda	1N4148 Diode
DT60	309.325.927	1N4148 Diode	1N4148 DiOd*
OT6)	309.325.927	tN4l4a Diode	1N414B OiOd*
OT61	462.299	SAV21 Diode	BAV21 Diode
OT62	309.325,927	1N414B Diode	1N4148 Diode
DT63	464.679	BAV21 Diode	BAV21 Diode
OT70	309.325.927	1N4148 Diode	tN4148 Diode
DT71	462.299	BAV21 Diooe	BAV21 Diode
OT72	309.325.927	1N414B Dioda	1N4148 Diode
DT65	464.358	ZP08.2 0.5W Z-DlodW	ZPDB.2 0.5W Z-Dktd*
DT66	309.325,927	1N4148 Diod*	1N4146 Diod*
DV01	309.325,927	1N4148 D>0d»	1N4148 Diode
OV02	309.325.927	1N4148 Dioda	1N4148 Diode
OV03	309.325927	1N414B Diode	1N414B Diode
OV04	309.325,127	BZX55B8V2Z-D>00*	BZX55B8V2 Z-Dlod*
0X01	309.325.927	1N4148 Ood*	1N4148 Diode
DX02	309.325.927	1N4148 Diode	1N4148 D'oda
0X03	309.325.927	1N414B Diofle	1N414B Diode
0X04	309 325-927	1N4148 D'OOfl	1N4146 Diod*
FP01	309,627.506	1.6AT Sicherung	1.6AT FUM
IA01	202.031.20	TDA7253 1C	TOA725S 1C
IA01	202.992.40	Morrfgectip	CHp
IC01	203.357.50	TDA4685 1C	TDA4MS 1C
IF01	309 368,733	TDA1771 1C	TDA1771 1C
1F01	309.903.644	Montagecltp	Clip m*t*l
1101	201.eS2.80	STV224A 1C	STV8224A 1C
IK01	101.324.10	TFMK1330T 1C IR-Vorvrefrkf	TFMK1330T 1C
IP01	309.368549	TEA2261 1C	TEA2261 1C
IR01	203.735,40	ST9291J6B1 1C prog. o. S.	ST9291J6B1 1C
IB01	251.230,90	ST9291J6B1 1C prog. m. S.	ST9291J6B1 1C
IR01	309.669966	IC-Fllssung 42p0lig	(C socket 42pol*
IR02	309368734	TDA81391C	TDA81391C
IR02	309.903.644	Montageclip	Clip melal
IR03	243.022	IC-Faasung flpolig	1C socket 8pol*
IR03	490,008 0379	X24C04 1C	X24C041C
1T01	202.992.40	Monltgecllp	CHp
IT01	309.36f.606	TEA5101AIC	TEA5101A 1C
IV01	201.656.10	STV21181C	STV21181C
IV01	309.669 966	IC-Fassung 4;oo<tg	1C socket42pol*
1X01	203.061.50	CF70204 1C	CF70204 1C
1X02	203.061 60	CP72306 IC	CF72306 1C
1X03	309.368.470	UA7805CSP/MC7605 1C	UA7B05CSP 1C
LH01	339349512	47UH Drosiel	47UH RP choke coll
LH02	339349512	47UH Dfooel	47UH RF choke coil
LI01	309.250 968	OU56H Orotsei	OU56H RF choke 00)1
LI03	266.716	22UM Oroasel	22UH Choke
LI20	150.401.10	3U3H 10% Dros«*l	3U3H 10% Chok*COil
LI29	203.109.30	38M9HZ Fillef LA7x7	38M9HZ Filter
LI62	004.710.3676	12UH 10% DfdifJ	12UH 10% Choke coil
L163	130.206.00	5U6H 10% Orossel	5U6H 10% Choke coil
LLOI	243.866	Tfeibertfnifofm.Hof	H-Drlvr transformer
LL03	309.249.377	S8UH Spul*. H-Limritkt	58UH H-Linearlty coll

Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!
Importante: Ordinare sempre con il numero correspondent! di codice!
Importante: Pedir siempre los recambios con el numero correspondiente **codigo!**

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
		MODULE/AUSTAUSCHTEILE:	EXCHANGE PARTS:
MTM4045	202.483.90	MTM4045 TUNER	MTM4045 TUNER
		CHASS1S-TE1LE	CHASSIS PARTS
BA01	21>.OM	Stiftfrr ipoiig. UP	2 pin contact Flouting
BE01	309«51 001	Scartbkichse21polfg	Scan *ocke(
BT01	201.746.20	Biklronrfassung	Cathode ray tub* sockt
BTOl	353,902,1000	Bildrohrlaaaung	Ca-noae riy tube >ock«l
BT02	905.903.50	Simi*ist* IQpollfl RD UF	Conrct »trip 10-pol*
BV01	309.650.Oe4	StilUeisle lOpollg UF	Contact itrip 10-por
BV02	90S.903.50	Sfitllerte lOpolig RD UF	Confci •trip 10-pol*
BV03	309.950.092	Stiltl*i*f. 4polig Uegend	Contact atrip, 4-pok«
8X01	309.650.087	Stifllelele. lOpohg. NaturU	Contact «trip, 10-pot<
CH12	490.008.0607	10NF 250V 20% K*ramik-Kond*naator	10NF 250V 20% C cap
CL04	101.657.70	6N3F 1K6V 3,5% Filmkondenaator	6N3F 1K6V 3,5% Film c»p
CL04	258.909	7N6F 1K6V 3.5% FilmkondenaatOf	7N6F 1K6V 3.5% Film dp
CL04	490.007.8232		7NOF 1K5V 3.5% Film cap
CL05	309.433.786	390NF 250V 10% MKP-Kond*n«ator	39CNF250V 10%Fitmc«p
CL05	309433.775	470NF 250V 5% MKP-KondenaaiOf	47CNP 250V 5% Capacitor
CLIO			
CL12	490008.0607	10NF 250V 20% Keramik-Kondensator	10NF 250V 20% Ccap
CH5	266.243	330PF 1KV 10% Keramik-Kond*nutor	33CPF 1KV 10% C cap
CL17	243 879	330PF 400V 20% Karamik-Kondensalor	330PF 400V 20% C cap
ciia	242.272	6BOPF 2KV 10% K*ramik-Kond*nsator	66CPF 2KV 10% C cap
CPOl	252.120	OU1F 276V 20% MP-Kond*n—tor	OU'F 275V 20% MPoty cap
CP04	203.887.60	1NF 1KV 10% K*ramik-Kondenaator	1NP 1KV 10% C cap
			1N5P 1KV Ccap
CP06	309.440.680		
CP07	490,007.2242	100UF 400V Elho	100UF 400V E cap
CP08	203.867.80	1NF 1KV 10% Kef«mik-Konden»«tOf	1NF 1KV 10% C cap
CPU	243.679	330PF 400V 20% Ker*(nik-Konden*alor	330PF 400V 20% Ccap
CP16	309.440.660	1NF 1KV 50%Kefmtk-Kondenaator	1NF 1KV 50% C cap
CP21	101.09980	4N7F 400V 20% Kefmik-Kondenattor	4N7F 400V 20% Ccap
CP21			Profctlon cap
CP29	490.008.0601	270PF 2KV 10% Kfamik-Kondansator	27CPP2KV10%Ccap
CP35	266.243	330PF 1KV 10% K*ramik-Kond*naator	330PP 1KV 10% C cap
CP36	309.419.428	150UP 200V Eiko	1SOUF 200V E cap
CP40	243.679	330PF 400V 20% K*famik-Kond«n—tor	330PP 400V 20% C cap
CT03	140.360.20	2N2F 2KV 50% Kftramik-KondTrator	2N2F 2KV 50% Ccap
CT82	248.746	2U2F 250V Elko	2U2F 250V E cap
CT84	23(221	10NF 250VAC 400V Keramik-Kondensator	10NF C cap
CT85	309.442.978	1NF2KV20%Keramik-Kondenaator	1NF2KV20»CC«p
DA05	31M.32i.UI	BZX55B2V7 ZCHod*	8ZX5SB2V7 Z-Ooda
OC01	464371	ZPD5.1 Z-Dtod*	ZPD5.1 Z-DlodW
DFOf	309.325.951	1N4001 Diod*	1N4001 Diod*
DF02	309-325.927	1N4148 DlOd*	1N4148 Diod*
DF21	309.325,927	1N4148 Dod*	1N4149 Oiod*
DF22	309.325.927	1N4148 Oiodtt	1N4148 DlOd*
OH01	353.111.2001	ZTK33C tC	ZTK33C 1C
DK01	202.9(6.20	LTL-4263 Diode LED rot	LTL-4263 Diod* LEO r*d
DK01	239.018	Halter. LED	LEO rroldw
DK03	202.966.20	LTL-4263 Diod* LED rot	LTL-4263 Olod* LED r»d
MK03	203.820.60	Halfr LEO	LEO holdw
DL01	309.325.927	1N41480iOd*	t N4148 Oiod*
DL02	204.037.70	BYT52Q Diod*	BYTS2G Oiod*
DL04	204.037,70	BYT52G Di0d»	BYTS2Q Diod*
DLOt	204.037.70	8YT52G OlOd*	BYTS2G DiOd*
0106	204.037.70	BYT52G Diod*	B'<T52G DiOd*
DL07	309.325.951	1N4001 DiOd*	1N4001 Diod*
DL06	309.325.951	1N4001 DiOd*	1N4001 DiOd*
DL12	309,325.927	1N4148 Oioda	1N4148 Diodtt
DL13	243.375	BZX55B13VZ.Diod*	BZXSSB13VZ-Diod*
01-20	309.325.927	1N414B Diode	1N414B Diod*
OL21	309.325,927	1N4148 Diod*	1N4146 Oiod*
DL23	309.325.927	1N4148 DtOd*	1 N41480100*
DP01	102.661.30	M100M DiOd*	M100M Dtod*
OP02	102.661.30	M100M Oiod*	M100M Diod*
DP03	102,661-30	M100M Diodt	M100M Dk)d*
DP04	102.661.30	M100M Diodt	M100M Diode
OPO»	490.001.1567	BYT11-600 Olod4	BYTI1-600 Dtod*
DPM	204.037.70	BYT52G Di0d«	BrT52G Oiod*
OP07	204.037.70	6YT52G Diod*	BYT52G Diod*
OPW	204.037.70	BYT52Q Oted*	BYTS2Q Diod*

Pos~	Art.-Nr. Part No.	Bezeichnung	Part
DP09	30932S.927	1N4148 DiOd*	1N4148D100*
DP10	309.325.927	1N4148 D'od*	1N4148 Diod*
OP11	309.325 951	1N4001 D*0d»	1N4001 Diode
OP12	309.325.951	1N4001 Diode	1N4001 Diode
DPI3	309.325951	1N4001 DioOe	1N4001 Diode
OP20	490.007.6951	BYT13-800 Diod*	BYT13-800 Diod*
DP21	204.037.70	BYT52G Diod*	BYT52G Diode
DP21	490.008.0461	PFR852 Dioda	PFR852 Diode
OP22	204.037.70	BYT52G DlOO*	BYT52G Diode
DR04	464.358	ZPD8.2 0.5W Z-Diod*	ZPD8.2 0.5W Z-DiOd*
DB05	309.325.927	1N4148 Oiod*	1N4148 Diod*
OR06	309.325.927	1N4148 OlOd*	1N4148 Diode
DT01	464.358	ZPD8.2 0,5W Z-OiOd*	ZPD8.2 0.5WZ-Oied*
OT21	309325.927	1N4148 D>0d*	1N4148 Diod*
OT22	309,325.927	1N4148 D<0d*	1N4148 Diode
DT23	464.879	BAV21 D.od*	BAV21 Diode
DT41	309.325.927	1N4148 Diode	1N4148 Diode
DT42	309.325.927	1N4148 Diod*	1N4148 Diode
OT43	464.879	BAV21 DiOd*	BAV21 Diode
DT50	309.325 927	1N4148 DiOd*	1N4148 Diode
OT51	462.299	BAV21 DiOd*	BAV21 Diode
DT52	309.325.927	1N4146 D<oda	1N4148 Diode
DT60	309.325.927	1N4148 Diode	1N4148 Diode
DT6<	309.325.927	1N4148 OiOde	1N4148 Diode
OT61	462.299	8AV21 Diode	BAV21 Diode
OT62	309.325.927	1N4146 Diode	1N4148 Diode
DT63	464.679	BAV21 Diod*	BAV21 Diode
DT70	309.325.927	1N4l480ode	1N4148 Diode
OT71	462.299	BAV21 Diode	BAV21 Diode
OT72	309.325.927	1N4148 Diode	1N4148 Diode
DT85	464.358	ZPD8.2 0.5W Z-Diod*	ZP09.20.5WZ-DtOd*
DT86	309.325.927	1N4148DlOd*	1N4148 Diode
DV01	309.325.927	1N4148 Diode	1N4148 Diode
DV02	309.325.927	1N4148 Diode	1N4148 Diode
OV03	309.325.927	1N4148 Diode	1N4148 DiOde
DV04	309.325.127	BZX5568V; Z.D.od*	BZX55B8V2 2-Dode
0X01	309.325-927	1N4148D.ode	1N4148 Diode
0X02	309.325.927	1N4148 Diode	1N4148 Diode
0X03	309.325 927	1N4148 DioOe	1N4148 Diode
0X04	309.325-927	1N4148 Diode	1N4146 Diode
FP01	309627.508	1.6AT SchTung	1.6ATFuee
IA01	202.031.20	TDA72531C	TDA72S31C
IA01	202.992.40	Monlageclip	CHp
IC01	203.357.50	TDA46651C	TOA46651C
IF01	309 368.733	TDA1771 1C	TOA177t 1C
IF01	309.903.844	Montag*clip	Clip mfl
1101	201.ef2.10	STVB224A 1C	STVB224A 1C
IK01	101.324.10	TFMK1330T 1C IH-VorvratBrker	TFMK1330T 1C
IP01	309.368.549	TEA22611C	TEA22611C
IR01	203.735.40	ST9291J6B1 1C prog.0. S.	ST9291J6B1 1C
IROt	251.230.90	ST9291J6B1 1C prog. m. S.	ST9291J6B1 1C
IR01	309.689 966	IC-Fassung 42oolig	(C socket 42pol*
IR02	309.368 734	TDA81391C	TDA81391C
IR02	309.903.844	Montageclip	Clip metal
IR03	243.022	IC-Fassung Bpolig	1C socket 8pol*
IR03	490.0080379	X24C041C	X24C041C
IT01	202.992.40	Monlageclip	Clip
IT01	309368606	TEA5101AIC	TEA5101A |C
IV01	201 658 10	STV21181C	STV21181C
IV01	309.689 966	IC-Fassung 42ooltg	1C socket42por
1X01	203.061.50	CP70204 1C	CF70204 1C
1X02	203.061.60	CP72306 1C	CF72306 1C
1X03	309.368.470	UA7805CSP/MC7M5 1C	UA760SCSP 1C
LM01	339.349.512	47UH Dro*—l	47UH RF chok* COll
LH02	339 349 512	47UH DfOtael	47UH RF Chok* COil
LI01	309.250 988	0(J56H Drossef	OU56H RF chok* 60U
LI03	266716	22UH Diossel	22UM Choke
L120	150,401-10	3U3H 10% Dror*l	3U3H 10% Chok* coil
LI29	203.109.30	36U9HZ Filfr LA7l7	38M9HZ Fi«*r
L162	004.710.3876	12UH 10% Drosa*)	12UH 10%Cfiok* coil
L163	130.206.00	SU6H 10% Drosael	5U6H 10% Chok* coil
LL01	243.888	Treibertranxformator	M-Driver transformer
11.03	309.249.377	5BUH SDul*. H-Lirrarift	58UH H-Lineafiiy colt

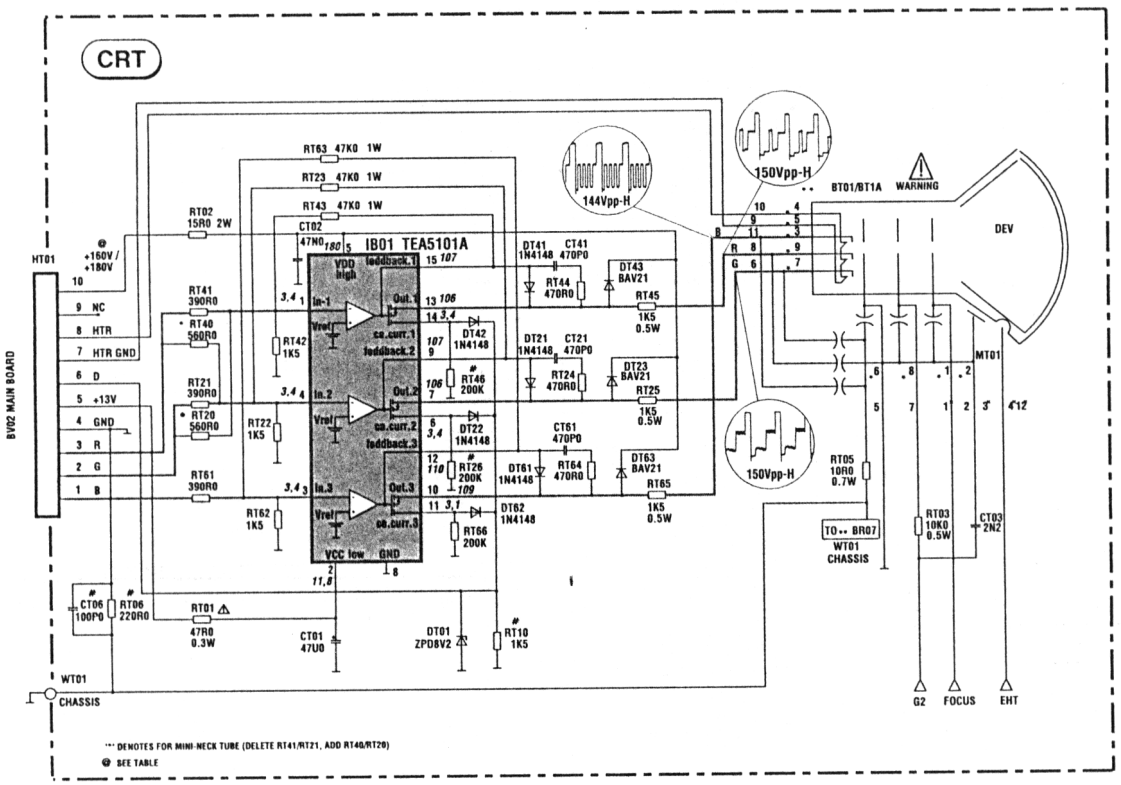
Ersatzteile • Spare parts list • Liste de pieces de rechange • Lista parti di ricambio Lista de piezas de recambio

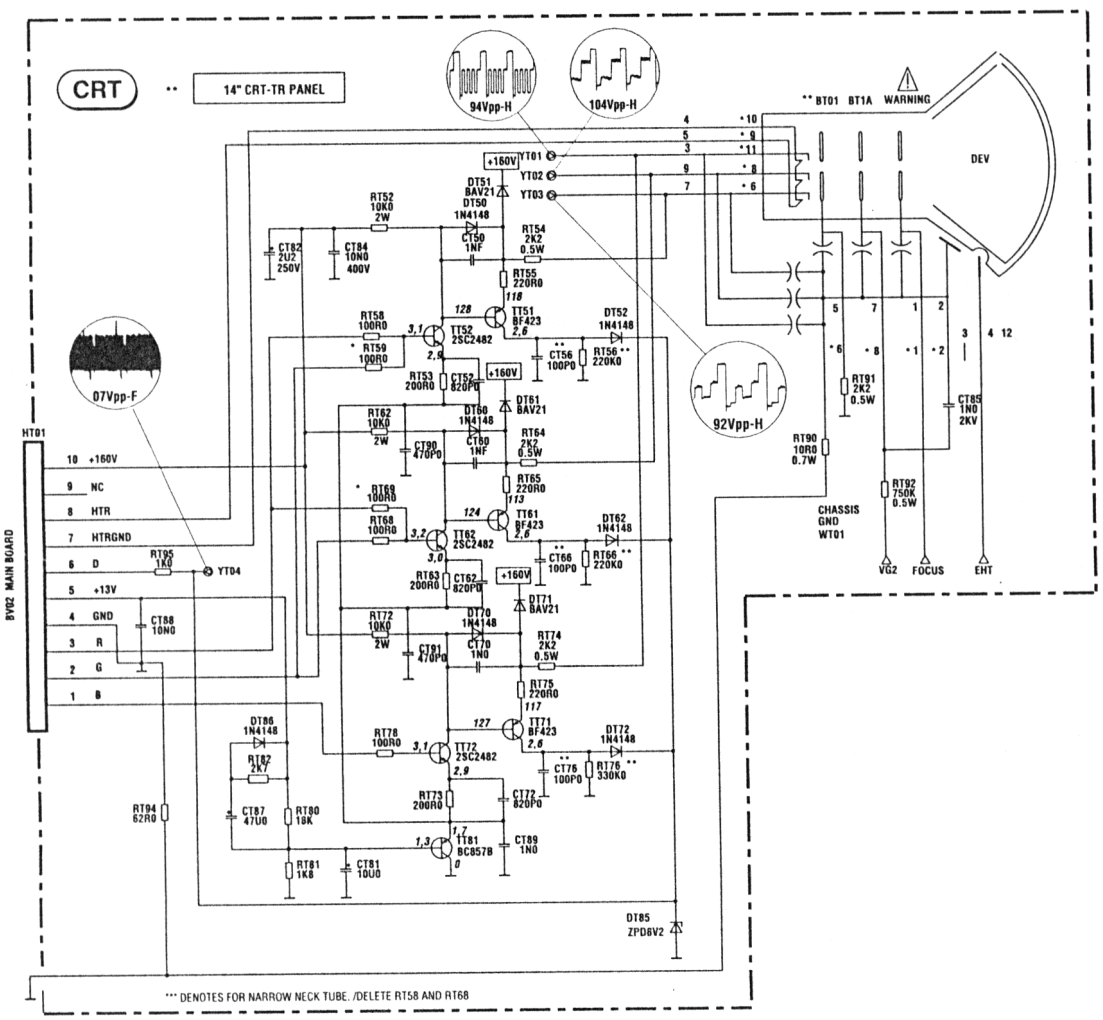
Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pieces de rechange, priere d'indiquer et tout cas le numero de la piece!
Importante: Ordinare sempre con il numero correspondenti di codice!
Importante: Pedir siempre los recambios con el numero correspondiente codigo!

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
LL03	490.007.8459	90UH Spule H-Llrwahtt	SOUM H-Linearity coil
LL04	309.250984	50UH15%Oroifrl	50UH 15% Choke
LL05	20202880 !	Diodenaplil-Tralo TX91 14' FCV-1410E18	Diode split transtoffTTf
LL05	203.832 80 *	OtOdeflsplil-Tfafo TX91 20*	Diodfli split traniforiTiM
LLOS	251.233.40 5	D>od»nsplH.TrafoTX91 20' FCV-2010E07	Diod* split Irinsformw
LPO)	339 349.566 !	2X4QOUH NBtzeingangUro——l	2X400UH Poww chok«
LP02	203 979.40	30MH Siebarossel	30MH Piller choke
LP02	490.0060542	33MOH Siftbdrossel	Pilfr choke
LP03	203774.10 S	Trafo Schaltnetzfi)	Swiicfifld mode power (rinxformw
LP03	203.t25.90 E	Trafo SchaHnetzteil ETS42A2-116ND	Switcrfd 'nod* power tfinitomw
LP04	203.264 60	2U2H 10% Drossel	2U2H tO%Chok«coil
LPO*	203.264 50	4UH 10% Orossel	4UH 10%Chokacoil
LPW	203.264.50	4UH 10% Drossol	4UH 10% Choke coil
LP01	150397.50	15UH 10% Orossel	1SUH 10% Choke coil
LR01	266406	10UM Droeiwt	IOUHChokccoU
MTO)	402.0t2.00	Clneh BucttM	Clneh •ockt
P101	203.S13.20	10KR 30% Tnmmwider»tand (legend	10KR 30% Trimmer r—iator
PP01	309 S09.204	470R Tnmmwiderstand. liegend	470R Trimmer reirtor
OC01	100.877.10	4M433616HZQuirz	4M433G19HZ Crystal
QC02	100.877.20	3M579545HZQuarz	3M579545HZ Crysfl
0101	404.03749	OFWG1962M Obertlachenwirnfilter	Surfac* •eouilic wv tilfr
0132	278.341	SFT5.SMA KeramikftHer	SFTS.6MA Cenmic lilfr
0114	203.381.70	70KHZ Kenmiklilter Trap	70KHZ Certmic filter trip
QR01	3C9.335.731	BMOHZ Quarz	8MOHZ Crytial
QV01	309.180.840	CSB503B Keramikfllfr	CS95039 CTtmic mif
QXOt	261.323	13M875HZ Quarz	13M875HZCfyst»l
RA25	339 537.717	1R 0.3W 5% Sicnerneltswiderstand	1 R 0,3W 5% Fusible resistor
RA21	246.a0e S	470R 0.3W 5% Scherheitswidersiand	470R 0.3W 5% FusiDle resistor
RF01	1SO.OM.70 !	2R2 0.3W S% SIcherheifwldarafnd	2R2 0.3W 5% Fu»ibli resistor
RF04	150.144.10	22R 0.4W 2% MelaMfilmwiderstand	22R0.4W2%Mefl litm rauxtor
RHie	339.537.717 ;	1R 0.3W 5% Sichemeitswider stand	1R 0.3W 5% Fusible resistor
RM17	253.747 S	5R6 0.3W 5% Sicherheitawiderstand	5R6 0,3W 5% Fusible resistor
BL01	130.838.20	390R 1W 5% Metalloxydwidersland	390R 1W 5% Mfttal oxide resistor
RL07	309 580.952	1KR 0.5W 10% Sicherheilswidersiand	1KR 0.5W 10% Fusible resistor
RL08	101513.20	ieR 2W 5% Metalloxidwtderstand	1 BR 2W 5% Oxide metal resistor
RLM	309 536 942	33R tW 5% Melalloxydwiderstand	33R 1W 5% Men oxida resistor
RLO«	490 006 7871	33R 2W 5% Metalloxydwiderstand	33R 2W 5% Metal oxide reaislOf
RLM	203521.70	8R2 5W 10% Drahtwid erst and	8R25W10%Wiferes.slof
RL11			15R 0.5W 5% Fusible resistor
RL12	103,131,10 S	OR560 0.5W 5% Sicherheitswiderstand	OR560 0.5W 5% Fusible resistor
RL13	103.054.50 ;	OR220 0.5W 5% Sicherheitswiderstand	OR220 0.5W 5% Fusible resistor
RL13	103.131.10 S	OR560 0.5W 5% Sicherheitswiderstand	OR560 0.5W 5% Fusibf restsior
RL13	243743 S	1R5 0.5W 5% Sicherheilswiderstand	1R5 0,5W 5% Fusible resistor
RL22	103.321.70	75KR 1W 5% Metalloxydwiderstand	75KR 1W 5% Metal oxide resistor
RL22			82KR 1W 5% Metal oxide resistor
RP01	203.696.40	5R1 5W 10% Drshlwid er stand	5R1 5W 10% Wire resistor
RP02	110.651.00 S	25R 220V PTC-Wlderstand	25R 220V PTC resistor
RP03	203 102.40	1K 7W 5% Drahtwiderstand	1K7W 5% Wire resistor
RP06	2C3.695.90	18KR5W5%Mtlatlorydwidarstand	18KR 5W 5% Metal oxida resistor
RP07	41344301	4K75 0.25W 1% Metallfilmwiderstand	4K75 0.25W 1% Melal film resistor
RP10	204 704 60	33R 3W 5% MelalloxydwidTstand	33R 3W 5% Mefl oxide resistor
RP20	130.498.80	OR220 3W 5% Melalltilmwidersiand	OR220 3W 5% Meial film resistor
RP20	130.85530	OR270 3W 5% Metallfilmwiderstand	OR270 3W 5% Metal film r«s>s1or
RP21	309 530 716	TOM 0.7W 5% Schichtwider aland	10M 0.7W 5% Film resistor
RP31	103.0S4.50 S	OR220 0.5W 5% Sicherheitswiderstand	OR220 0.5W 5% Fusible resistor
RP31	243903 S	OR22 0.5W 5% Sicherheitswiderstand	OR22 0.5W 5% Fusible resistor
HP32	103054,50 R		
RP32	243 903 S	OR22 0.5W 5% Sk:hflrhe«tsw»dersiand	OR22 0.5W 5% Fusible resistor
RR01	100.37t.00 3	BR2 0.5W 5% Sich-hellswidTStand	8R2 O.SW 5% Fusible resistor

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
RT01	253.081 S	47R 0.3W StCherh cits wider stand	47R 0.3W Fusible resistor
RT02	130.013.50	15R 2W 5% Meftloxydwiderstand	15R 2W 5% Motal oxide resistor
RT03	404.349.80	10K0.5W5%W«afsiano	10K 0.5W 5% Resistor agglom.
RT23	101.337.80		
RT25	101.218.80	1K5R 0.5W 5% Widersfnd	1K5R 0.5W 5% Resisior affllom.
RT43	101.337.60		
RT45	101.218.80	1K5R 0.5W 5% Widersund	1K5R 0.5W 5% Resistor aoglom.
RT52	490007.8228	10KR2W 10% Meiailoxyaw.dersfnd	10KR 2W 10% Metal oxide resistor
RT62	490 007.8228	10KR2W 10% MeflloxydwidefSiand	10KR 2W 10% Melal oxide resistor
RT63	101-337,80	47KR 1W 5% M«flkixy0w>derstand	47KR iw 5% Metal oxide resistor
RT65	101.218.80	1K5R0.5W5% Widerstand	1K5R 0.5W 5% Resistor agglom.
RT72	490.007.8228	10KR2W10%Meuiloxydwidersiand	10KR 2W 10% Metal oxide resisior
RV02	258863 S		
RV41	150.099.70 S	3R9 0.3W 5% SicherheilswtdTslend	3R9 0.3W 5% Fusible resistor
RX01	309.580 955 :	22R 0.3W 5% Storwh^ttwidJntend	22R Q.3W B« Fuaible resltor
SK01	105.106.00	TaKtschaner	Tact twitch
SK01	404.474.1A	Taxtschalter	Tact switch
SK02	105,106,00	Taktscmier	Tact switch
			Tact switch
SK03	105.106.00	Taktscha'ier	Tad switch
SK03	404.474.1A	Taktscmier	Tad twitch
SK04	105.106.00	Taktecheirr	Tact twitch
SK04	404.474.1A	Takischalter	Taci switch
SKOS	101.759.10 S	Neizscnalter	Mama switch
SKOS	201.260.10 S	Netzschaltef. 4A 250V	Main« switch
TA05	339.555.241	BC9488 Transistor SMD	BC848B Transistor
TAOC	339555.241	BC848B Transistor SMD	BC848B Tranaiator
TP21	339.555241	BCS4BB Tranartor SMD	BCa4BB Transielor
TF31	102.762.40	8C&4BA Transistor	BCB4BA Transistor
TF31	339.5S5.24t	BC&48B Trarritor SMO	BC648B Transistor
TH01	249.0(3	BC647B Transioior SMO	BC847B Transistor
TH02	242.012	BC658/C Trensistor SMD	BC85a/C Transistor
TH03	242.012	BC858/C Tranaislor SMO	BC858/C Transistor
TH04	242.012	BCa56/C Transistor SMD	BC858/C Transistor
T101	242857	MMBTHIOLTI Transftor SMO	MMBTHIOLTI TransHtOf
T131	249.250	BC858B Transistor SMO	BC858B Transiator
T132	339.555.241	BC848B Transistor SMD	BC8488 Transistor
TK02	33t.SS5.241	BCB48B Truulfor SMD	RC8488 Tnin—ur
TL01	339.556.787	BC337-40 Tranarlor	BC337-40 TranaCtor
TL02	261.825	Montageclip 1	Clipl
TL02	309.005.026	S2055AF Tren»l»tor	S2055AF Transistor
TL13	339 556.767	BC337-40 Tranaistor	BC337-40 Transistor
TP01	102.067.60	BUL310XI Trenslfttof	BUL310XI Transistor
TP01	281.825	Montageclip 1	Cllpl t
TR01	339.555.241	BC848B Transistor SMD	BC848B Transistor
TR08	339.555.241	BC648B Transistor SMD	BC846B Transistor
TR03	339.555.241	BC848B Transistor SMO	BC848B Tranaiator
TT51	309.001.310	BF423 Transisior	BF423 Translator
TT52	160 037.60	2SC2482N Transistor	2SC2482N Transistor
TT61	309001.310	BF423 Transistor	
TT62	160.037.60	2SC2482N Transistor	2SC2482N Transistor
TT7]	309.001.310	BF423 Transistor	8P423 Transistor
TT72	160,037.60	2SC2482N Transistor	2SC2482N Transistor
TT81	352.875.5000	BC857B Trannitor SMO	BC857B Transistor
TV01	249.250	BC858B Trannxtof SMD	BC858B Tran«»lor
TV02	249250	BC858B Tran—tor SMO	BC8S8B Tr.nsrlor
TX01	309001 228	BC558B Transitor	BC5SBB Transistor
	103.381.90	Laitung mrt Sleeker lOpolig 420mm Chassis BV82 an CRT HT81	Cable with socket 10-pol* 420mm

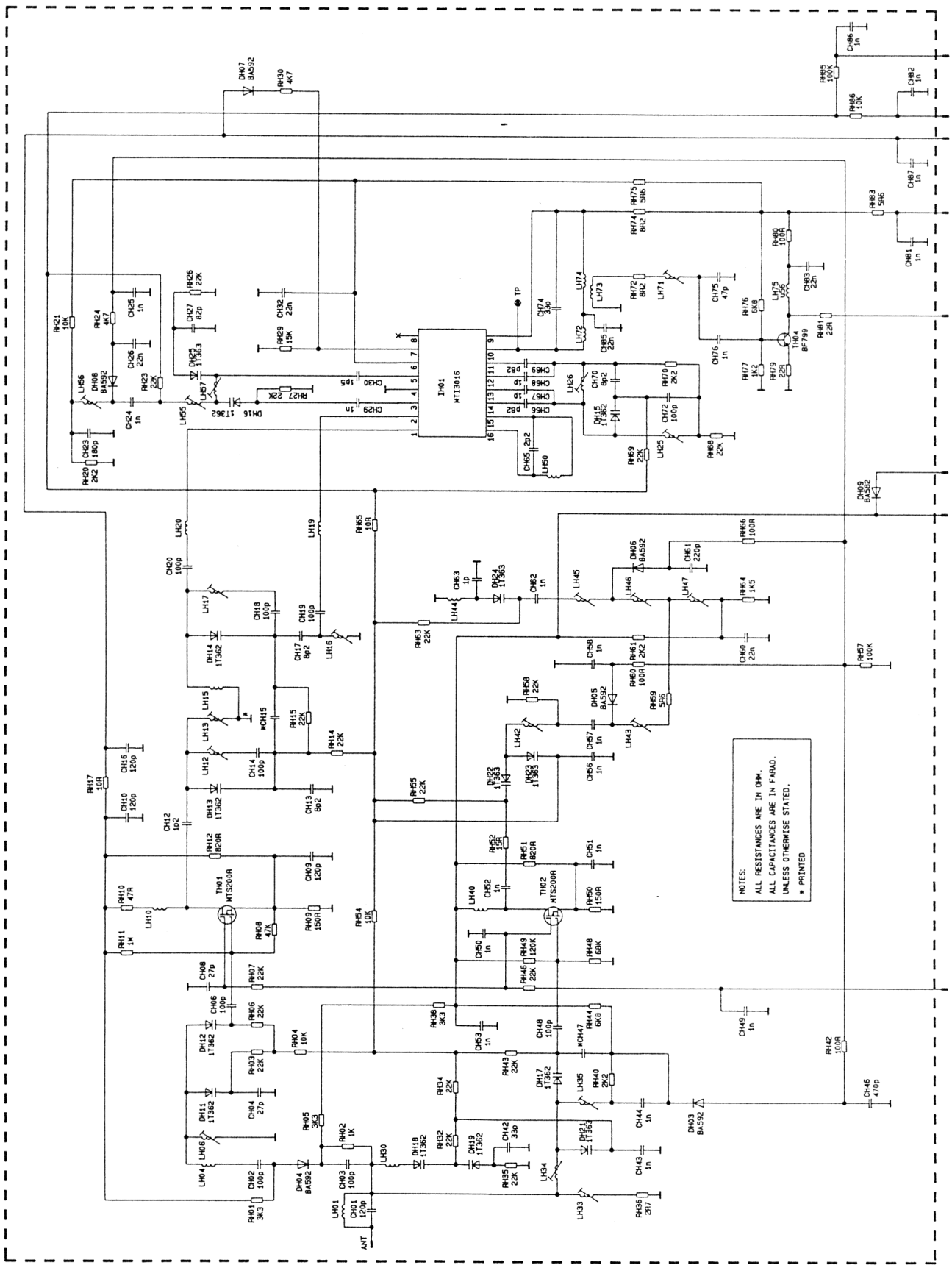
VIDEO AMPLIFIER - AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKER
AMPLIFICATORE VIDEO - AMPLIFICADOR VIDEO





TX91

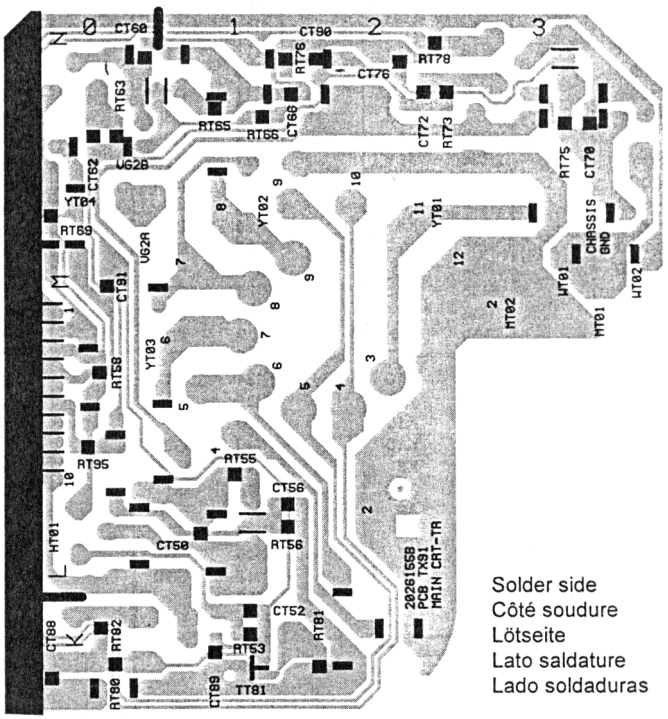
VHF / UHF TUNER MTM 4045

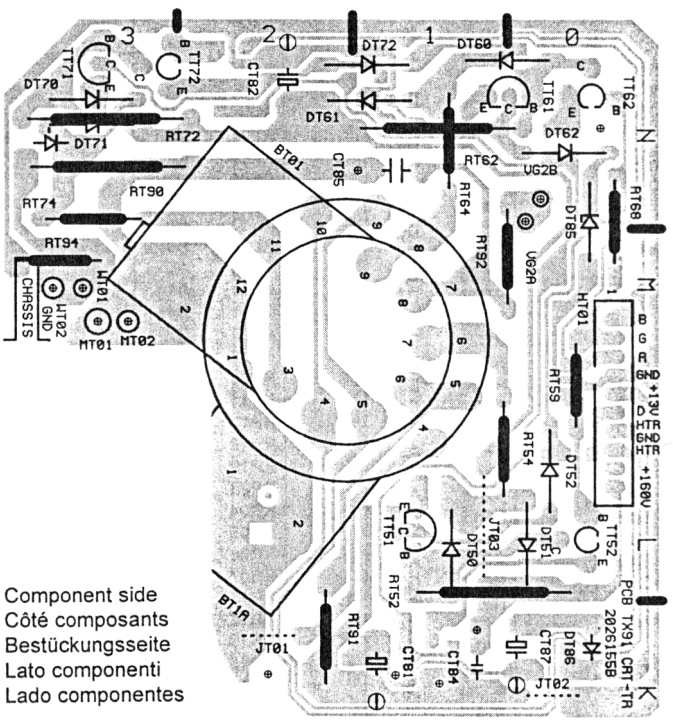


(For information only)

VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

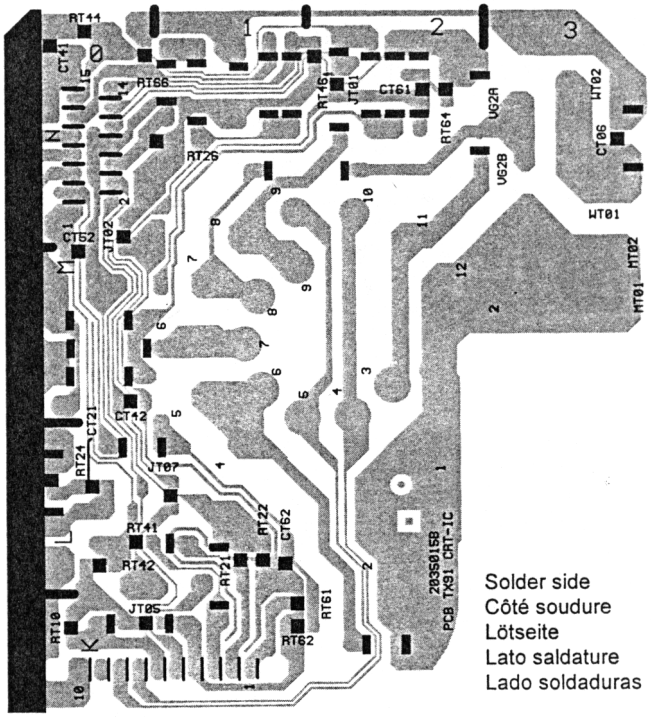
- TRANSISTOR VERSION -

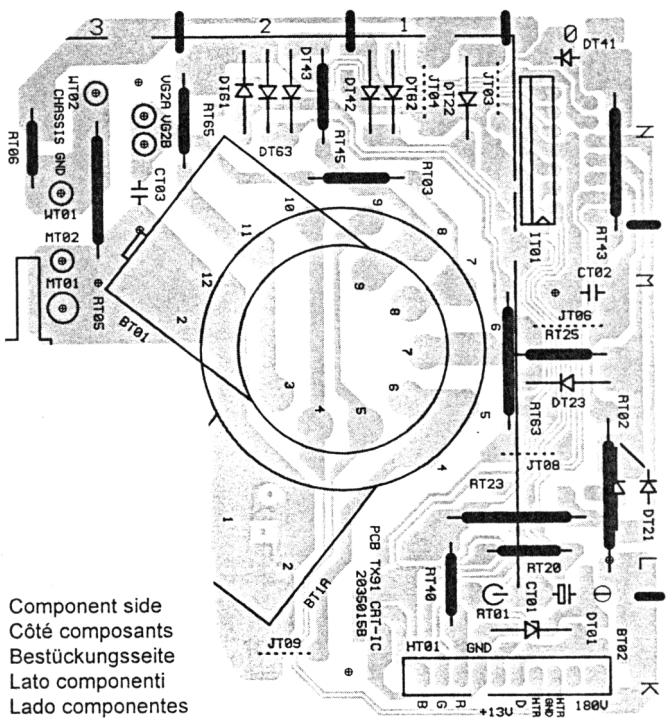




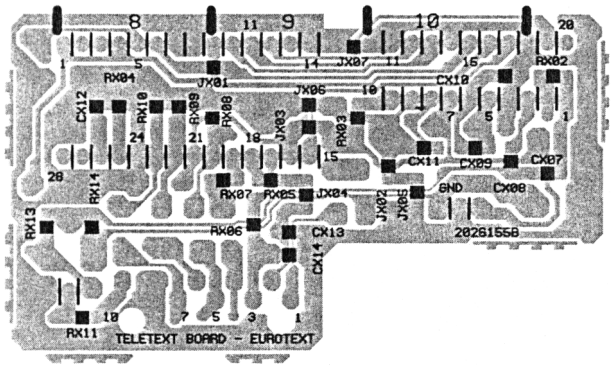
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

- IC VERSION -

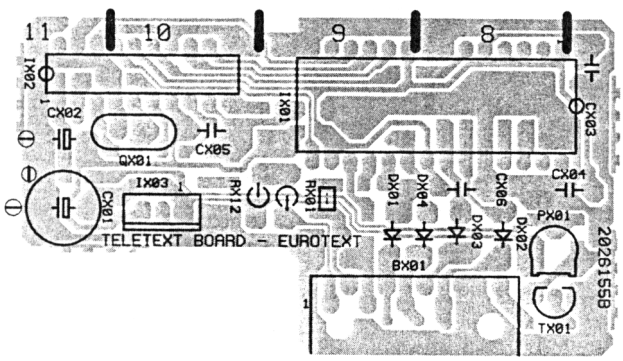




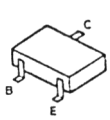
TELETEXT MODULE - MODULE TELETEXTE - VIDEOTEXT MODUL
MODULO TELEVIDEO - MODULO TELETEXTO



Solder side
Côté soudure
Lötseite
Lato saldature
Lado soldaduras



Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

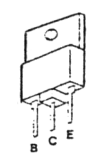


BC 847 B
BC 848 A /B /C
BC 857 B
BC 858 B /C
DTC 144 EK
MMBTH10L

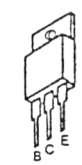
BF 423

2 SC 2482

BC 337
BC 558 B

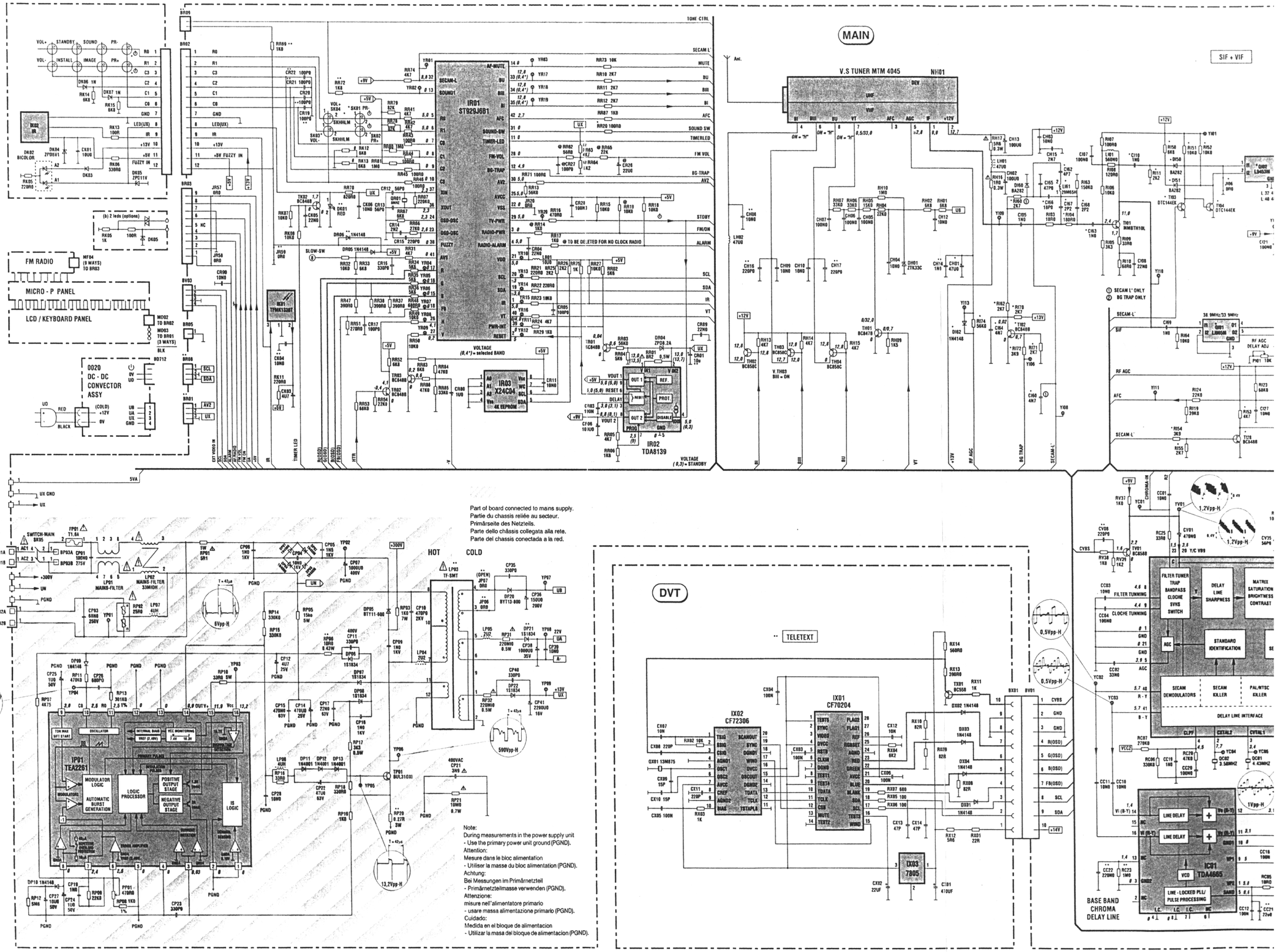


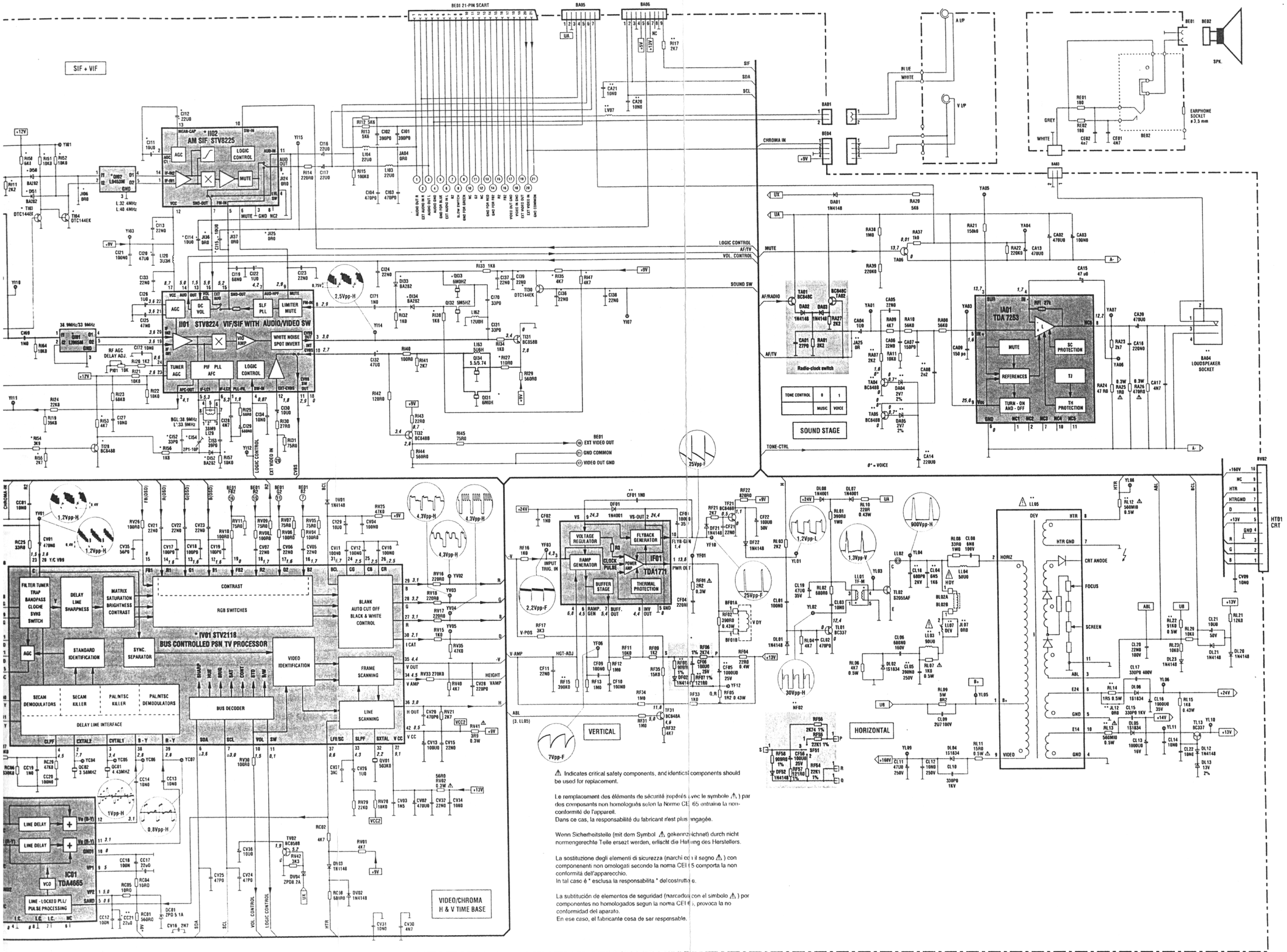
BUL 310 XI



S 2055 AF

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE SCHALTBILD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL





⚠ Indicates critical safety components, and identical components should be used for replacement.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

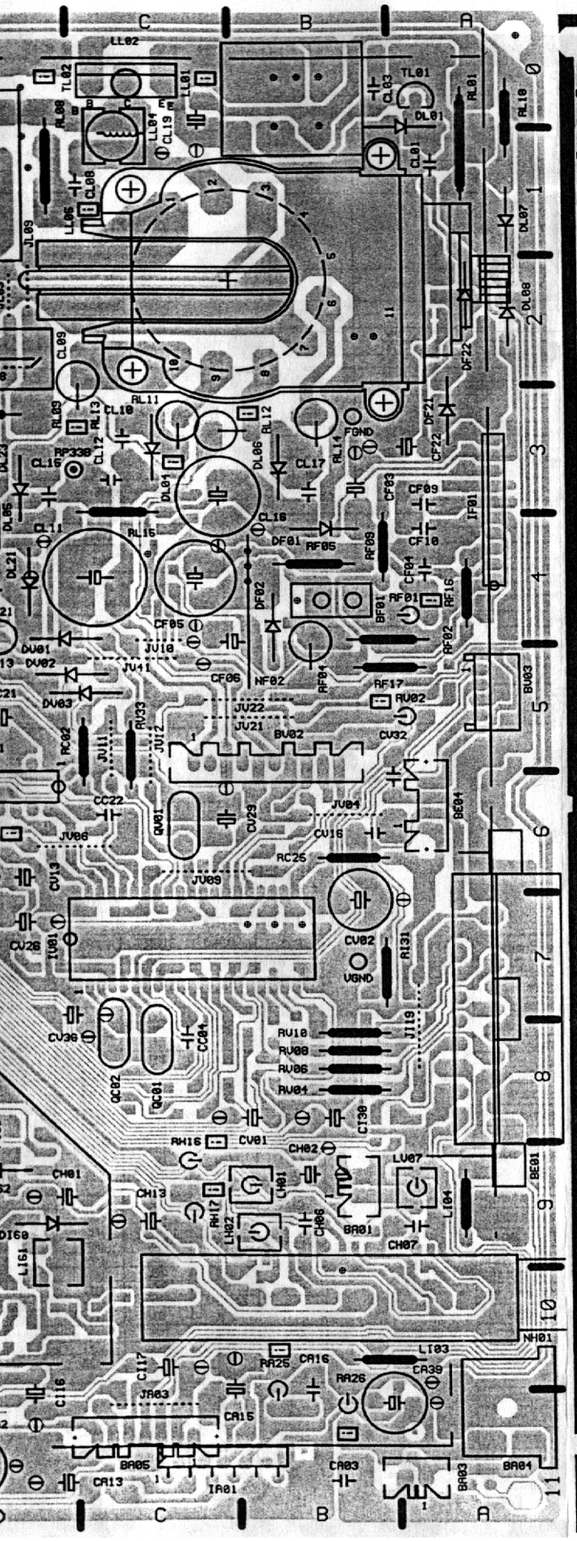
Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

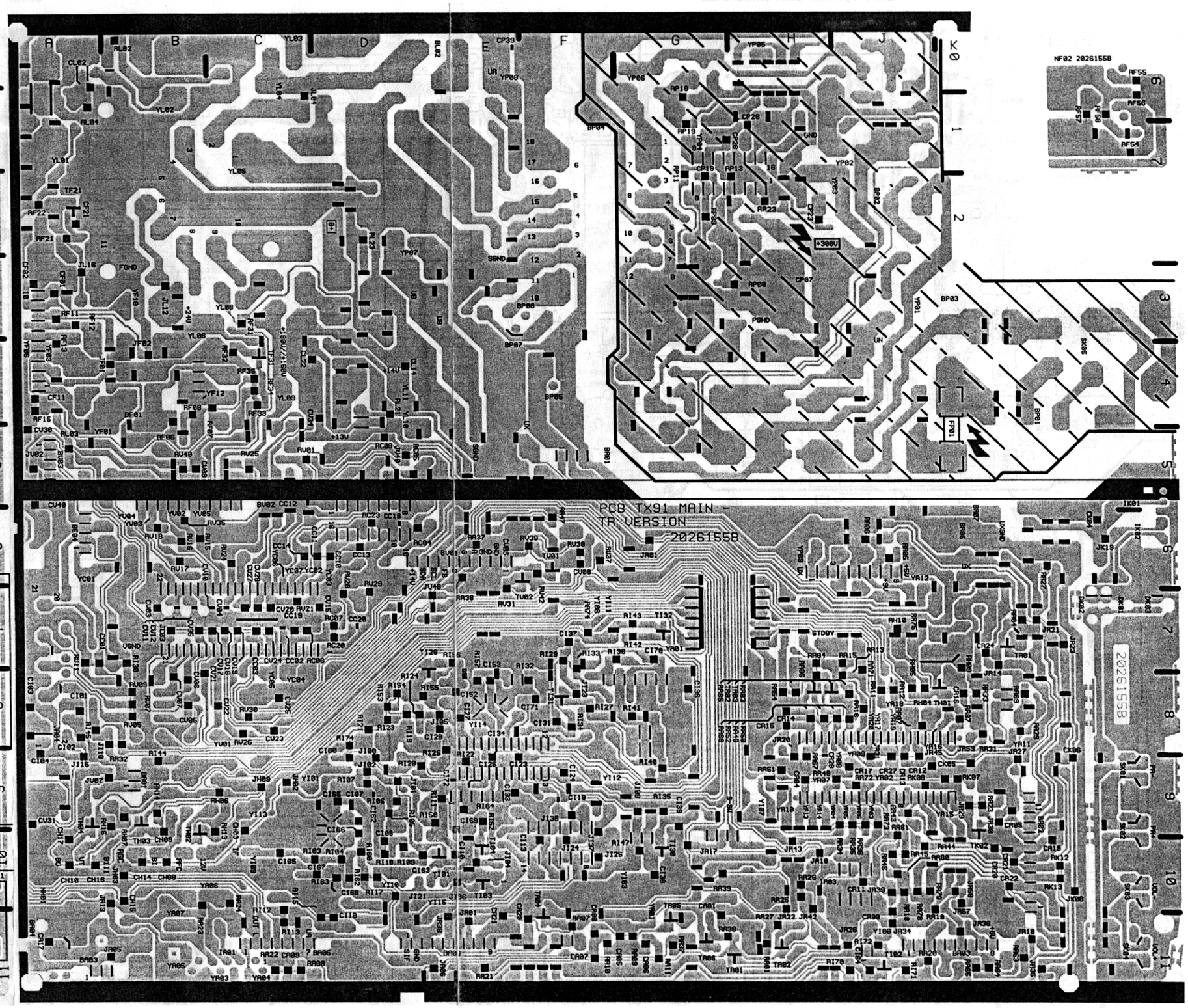
La sostituzione degli elementi di sicurezza (marchi con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.
In tal caso è esclusa la responsabilità del costruttore.

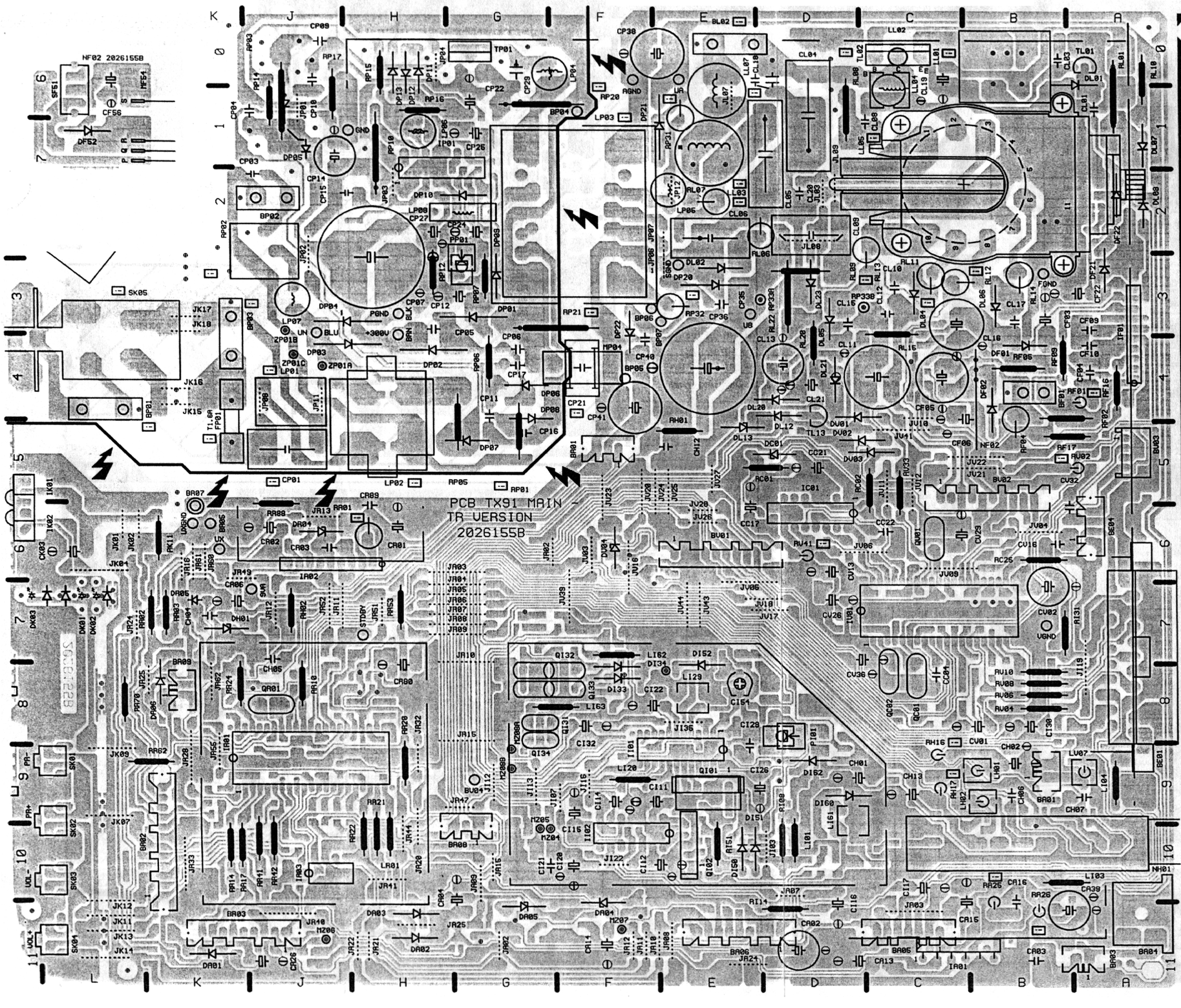
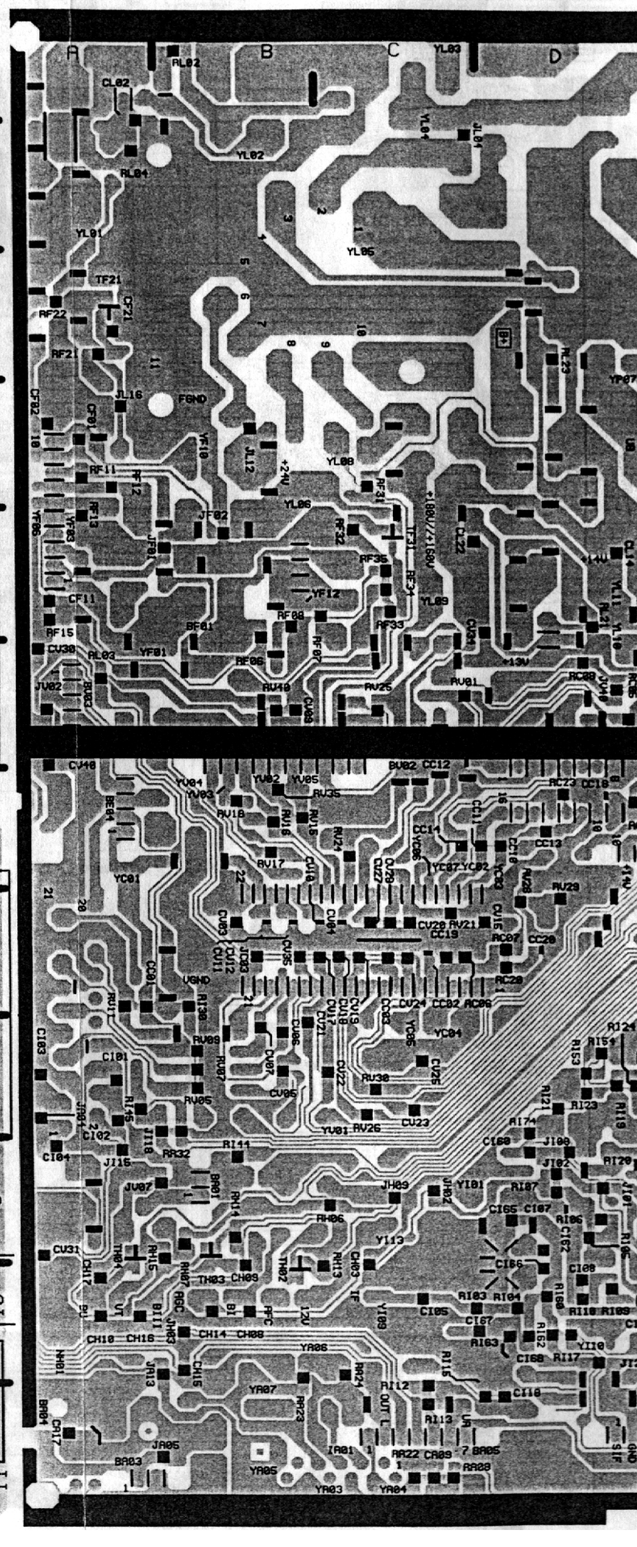
La subtitución de elementos de seguridad (marcados con el símbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

ATINA PRINCIPAL

Solder side - Côté soudure - Lötseite - Lato saldature - Lado soldaduras





MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

Component side - Côté composants - Bestückungsseite - Lato componenti - Lado componentes